CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Mar. 12	Bay City, Mich.	Mar. 1
Mar. 12	Buffalo, N. Y.	Mar. 1
Mar. 12	St. Petersburg, Fla.	Mar. 8
Mar. 12	Muskegon, Mich.	Mar. 8
Mar. 13	New York, N. Y.	Mar. 8
Mar. 13	Shamrock, Tex.	Mar. 1
Mar. 13	St. Louis, Mo.	Mar. 1
Mar. 14	Baltimore, Md.	Mar. 8
Mar. 14	New York, N. Y.	Mar. 8
Mar. 14	Elton, La.	Mar. 8
Mar. 14	Delaware, O.	Mar. 1
Mar. 14	Clawson, Mich.	Mar. 8
Mar. 15	Waupun, Wis.	Mar. 8
Mar. 15	Oxford, Miss.	Mar 1
Mar. 16	St. George, N. Y.	Mar. 8
Mar. 16	New York, N. Y.	Mar. 8
Mar. 16	Wauwatosa, Wis.	Mar. 8
Mar. 16	Cleveland, O.	Mar. 1
Mar. 19	Lake City, Minn.	Mar. 8
Mar. 20	Brooklyn, N. Y.	Feb. 22
	Adv. Feb. 22 to Mar. 8.	
Mar. 20	Davenport, Neb.	Mar. 8
Mar. 20	Mount Greenwood, Ill.	Mar. 8
	Adv. Mar. 8.	
Mar. 20	Milwaukee, Wis.	Mar. 8
Mar. 20	Brooklyn, N. Y.	Mar. 1
	Adv. Mar. 1 and 8.	
Mar. 20	Canandaigua, N. Y.	Mar. 1
Mar. 21	Roxboro, N. C.	Mar. 1
	Adv. Mar. 1 and 8.	
Mar. 23	Wallingford, Conn.	Mar. 8
	Adv. Mar. 8.	
Mar. 27	Weatherford, Okla.	Mar. 8
Apr. 1	Cresson, Pa.	Mar. 8
Apr. 4	Wheeling, W. Va.	Mar. 8
	Adv. Mar. 8.	
Apr. 26	New Orleans, La.	Mar. 8
	Adv. Mar. 8.	

SEWERS

Mar. 12	New Castle, Pa.	Jan. 25
Mar. 12	St. Petersburg, Fla.	Mar. 8
Mar. 13	Matawan, N. J.	Feb. 15
Mar. 13	Perrysburg, O.	Mar. 8
Mar. 15	New York, N. Y.	Mar. 8
Mar. 15	Riverside, Ont.	Mar. 8
Mar. 15	Cresson, Pa.	Mar. 8
Mar. 19	Lake City, Minn.	Mar. 8
Mar. 19	Pleasant Ridge, Mich.	Mar. 1
Mar. 19	Plainfield, N. J.	Mar. 1
Mar. 19	Newark, N. J.	Mar. 8
Mar. 20	South Bend, Ind.	Mar. 8
	Adv. Mar. 8.	
Mar. 20	Paducah, Ky.	Mar. 8
	Adv. Mar. 8.	
Mar. 21	Tonawanda, N. Y.	Mar. 1
Mar. 21	Kenmore, N. Y.	Mar. 8
Mar. 22	Mamaroneck, N. Y.	Mar. 8
	Adv. Mar. 8.	
Mar. 26	Glen Rock (Ridgewood P. O.), N. J.	Mar. 1
Apr. 10	Toronto, Ont.	Mar. 8

WASTE DISPOSAL

Mar. 12	St. Petersburg, Fla.	Mar. 8
Mar. 22	Marion, Wis.	Feb. 22
Mar. 27	Tampa, Fla.	Mar. 8

BRIDGES

Mar. 12	Kansas City, Kan.	Mar. 1
Mar. 12	Akron, O.	Mar. 1
Mar. 12	St. Petersburg, Fla.	Mar. 8
Mar. 12	Utah	Mar. 8
Mar. 13	Media, Pa.	Mar. 1
	Adv. Mar. 1 and 8.	
Mar. 14	Alvinston, Ont.	Mar. 8
Mar. 14	Washington, Ia.	Mar. 1
Mar. 14	Kentucky	Mar. 1
Mar. 14	Brigden, Ont.	Mar. 8
Mar. 15	Franconia, N. H.	Mar. 8
Mar. 15	Grand Forks, N. D.	Mar. 1
Mar. 15	Oskaloosa, Kan.	Feb. 22
Mar. 20	Manchester, N. H.	Feb. 22
Mar. 21	Brainerd, Minn.	Feb. 15
Mar. 22	Eau Claire, Wis.	Mar. 8
	Adv. Mar. 8.	
Mar. 23	Leamersville, Pa.	Mar. 8
Mar. 24	Brantford, Ont.	Mar. 8
Mar. 26	Bowling Green, O.	Mar. 8
	Adv. Mar. 8.	
Mar. 27	Wilkes-Barre, Pa.	Mar. 1
	Adv. Mar. 1 and 8.	
Apr. 1	Wilkes-Barre, Pa.	Dec. 14
Sept. 1	Sydney, New South Wales, Australia	Aug. 3

EXCAVATION, DRAINAGE, IRRIGATION

Mar. 13	Corcoran, Calif.	Mar. 1
Mar. 19	Selmer, Tenn.	Mar. 1
Mar. 21	Newton, Ia.	Mar. 1
Mar. 27	Lamar, Colo.	Mar. 8
	Adv. Mar. 8.	
Mar. 29	Beardstown, Ill.	Mar. 8
	Adv. Mar. 8.	

STREETS AND ROADS

Mar. 10	Laporte, Ind.	Mar. 8
Mar. 10	Princeton, Ind.	Mar. 8
Mar. 10	Rockport, Ind.	Mar. 8
Mar. 10	Vernon, Ind.	Mar. 8
Mar. 10	Versailles, Ind.	Mar. 8
Mar. 10	Angola, Ind.	Mar. 8
Mar. 10	Terre Haute, Ind.	Mar. 8
Mar. 12	Evansville, Ind.	Mar. 1
Mar. 12	Gowrie, Ia.	Mar. 8
Mar. 12	Burlington, N. C.	Mar. 8
Mar. 12	Bradentown, Fla.	Mar. 1
Mar. 12	Dayton, O.	Mar. 1
Mar. 12	Chicago, Ill.	Mar. 1
Mar. 12	Pennington, N. J.	Mar. 8
Mar. 12	South Bend, Ind.	Mar. 8
Mar. 12	Port Washington, Wis.	Mar. 8
Mar. 12	Arkansas	Mar. 8
Mar. 13	Washington	Mar. 1
Mar. 13	Louisiana	Mar. 1
Mar. 13	Wallingford, Conn.	Mar. 1
Mar. 13	Elkhorn, Wis	Mar. 8
Mar. 13	Corpus Christ., Tex.	Mar. 8
Mar. 13	Phila., Pa.	Mar. 8
Mar. 13	Omaha, Neb.	Mar. 8
Mar. 13	Mantorville, Minn.	Mar. 1
Mar. 13	South Bend, Ind.	Mar. 1
	Adv. Mar. 1 and 8.	
Mar. 13	Ohio	Mar. 1
Mar. 13	Ohio	Mar. 8
Mar. 13	Columbus, O.	Mar. 8
Mar. 14	Fairmont, Minn.	Mar. 8
Mar. 14	St. James, Minn.	Mar. 8
Mar. 14	Kentucky	Mar. 8
Mar. 14	Aiken, S. C.	Mar. 8
Mar. 14	Oklahoma	Mar. 8
Mar. 14	Waukesha, Wis.	Mar. 8
Mar. 14	Brooklyn, N. Y.	Mar. 8
Mar. 14	Mayville, Wis.	Feb. 15
Mar. 14	Virginia	Mar. 1
Mar. 14	Kentucky	Mar. 1
Mar. 14	Cleveland, O.	Mar. 8
Mar. 15	New York, N. Y.	Mar. 8
Mar. 15	Kitchner, Ont.	Mar. 8
Mar. 15	Staunton, Va.	Mar. 8
Mar. 15	Juneau, Wis.	Mar. 8
Mar. 15	Bishopville, S. C.	Mar. 8
Mar. 15	New Richmond, Wis.	Mar. 1
Mar. 15	Faribault, Minn.	Mar. 1
Mar. 15	Pittsburg, Kan.	Mar. 8
Mar. 16	Gaffney, S. C.	Mar. 8
Mar. 16	Clarksville, Tex.	Mar. 8
Mar. 16	Kenosha, Wis.	Mar. 1
Mar. 16	Ft. Scott, Kan.	Mar. 1
Mar. 16	Independence, Ia.	Mar. 1
Mar. 16	Cincinnati, O.	Mar. 8
Mar. 17	Duluth, Minn.	Mar. 8
Mar. 17	Brazil, Ind.	Mar. 8
Mar. 19	Hammond, Ind.	Mar. 8
Mar. 19	Spokane, Wash.	Mar. 8
Mar. 19	San Diego, Calif.	Mar. 8
Mar. 19	Mineola, N. Y.	Mar. 8
	Adv. Mar. 8.	
Mar. 20	Granite Falls, Minn.	Mar. 8
Mar. 20	Tampa, Fla.	Mar. 8
Mar. 20	Alabama	Feb. 22
Mar. 20	Sioux Falls, S. D.	Mar. 8
Mar. 21	Washington, Pa.	Mar. 8
Mar. 21	Madison, Wis.	Feb. 22
Mar. 21	Ontario	Mar. 8
Mar. 21	Independence, Kan.	Mar. 8
Mar. 21	Preston, Minn.	Mar. 8
Mar. 22	East Providence (Providence P. O.), R. I.	Mar. 8
Mar. 22	Worthington, Minn.	Mar. 8
Mar. 22	Madison, Wis.	Feb. 22
Mar. 23	Madison, Wis.	Feb. 22
Mar. 24	Charlottesville, Va.	Mar. 8
	Adv. Mar. 8.	
Mar. 27	St. Louis, Mo.	Mar. 8
Apr. 1	Huntingdon, Pa.	Feb. 8
Apr. 3	Amsterdam, N. Y.	Feb. 1
Apr. 4	Holton, Kan.	Mar. 8
Apr. 5	Topeka, Kan.	Mar. 8
Apr. 23	Spokane, Wash.	Feb. 1

INDUSTRIAL WORK

Mar. 14	Garfield, N. J.	Mar. 1
Mar. 20	New Haven, Conn.	Mar. 8
Mar. 27	Oswego, N. Y.	Mar. 1
	Adv. Mar. 1 and 8.	
Mar. 9	Juniata, Pa.	Mar. 8
Mar. 15	Hamilton, Ont.	Mar. 8

BUILDINGS

Mar. 10	Cleveland, O.	Mar. 8
Mar. 12	Milwaukee, Wis.	Mar. 8
Mar. 12	Wichita, Kan.	Feb. 15
Mar. 12	Lorain, O.	Mar. 1
Mar. 12	Mount Blanchard, O.	Mar. 1
Mar. 13	Allentown, Pa.	Mar. 8
Mar. 14	Buffalo, N. Y.	Feb. 22
Mar. 14	Duncannon, Pa.	Feb. 22
Mar. 14	Lancaster, Wis.	Mar. 1
Mar. 14	Newark, N. J.	Mar. 8
Mar. 15	Midland, Ont.	Mar. 8
Mar. 15	Milwaukee, Wis.	Mar. 8
Mar. 15	Wash., D. C.	Mar. 8
	Adv. Mar. 8.	
Mar. 15	Springfield, Mass.	Mar. 8
Mar. 15	Duluth, Minn.	Jan. 18
Mar. 15	Trenton, N. J.	Jan. 11
Mar. 15	Austin, Tex.	Mar. 1
Mar. 15	Roanoke, Va.	Mar. 8
Mar. 16	Atlanta, Ga.	Mar. 1
Mar. 16	Minnetonka Beach, Minn.	Mar. 1
Mar. 17	Mt. Union, Pa.	Mar. 8
Mar. 17	Virginia, Minn.	Mar. 1
Mar. 19	Erie, Pa.	Feb. 15
Mar. 19	Milwaukee, Wis.	Mar. 8
Mar. 19	Westfield, Mass.	Mar. 8
Mar. 20	Stockton, Calif.	Feb. 22
Mar. 21	Sykesville, Md.	Mar. 8
Mar. 21	New York, N. Y.	Mar. 8
Mar. 21	Memphis, Tenn.	Mar. 8
Mar. 21	Brooklyn, N. Y.	Mar. 8
Mar. 22	Oil City, Pa.	Mar. 8
Mar. 23	Shreveport, La.	Nov. 9
Mar. 26	Cincinnati, O.	Mar. 1
Mar. 27	West Bend, Wis.	Mar. 8
Mar. 30	Clearfield, Pa.	Mar. 8
	Adv. Mar. 8.	
Mar. 30	Sioux Falls, S. D.	Mar. 8
Apr. 1	Freeport, Pa.	Mar. 8
Apr. 2	Syracuse, N. Y.	Mar. 1
Apr. 31	Capa, S. D.	Mar. 8

FEDERAL GOVERNMENT WORK

Mar. 10	Wreck Removal — Buffalo, N. Y.	Mar. 1
	Adv. Mar. 1 and 8.	
Mar. 12	Barge—Florence, Ala.	Feb. 15
	Adv. Feb. 15 to Mar. 8.	
Mar. 13	Turbine and Generator, etc.—Riverton, Wyo.	Feb. 15
Mar. 14	Rock Protection—New Orleans, La.	Mar. 8
	Adv. Mar. 8.	
Mar. 14	Distilling Apparatus, etc. — Guantanamo, Cuba	Mar. 8
Mar. 14	Storehouse — San Diego, Calif.	Feb. 22
Mar. 14	Cranes — Puget Sound, Wash.	Feb. 22
Mar. 14	Hangars—Quantico, Va.	Mar. 1
Mar. 14	Extension—Keyport, Wash.	Mar. 1
Mar. 15	Dredging—New York, N. Y.	Feb. 15
	Adv. Feb. 15 to Mar. 8.	
Mar. 17	Dredging—Detroit, Mich.	Mar. 8
	Adv. Mar. 8.	
Mar. 17	Houses — Huntington, W. Va.	Feb. 15
	Adv. Feb. 15 to Mar. 8.	
Mar. 20	Dredging—Detroit, Mich.	Feb. 22
	Adv. Feb. 22 to Mar. 8.	
Mar. 21	Dredging—Phila., Pa.	Feb. 22
	Adv. Feb. 22 to Mar. 8.	
Mar. 21	Dredging—Detroit, Mich.	Feb. 22
	Adv. Feb. 22 to Mar. 8.	
Mar. 22	Tank and Tower — Memphis, Tenn.	Mar. 1
	Adv. Feb. 22 to Mar. 8.	
Mar. 26	Machine Shop—Staten Island, N. Y.	Mar. 8
Mar. 26	Extension — Kansas City, Mo.	Mar. 1
Mar. 29	Dredging — New York, N. Y.	Mar. 1
	Adv. Mar. 1 and 8.	
Mar. 29	Hospital — Livermore, Calif.	Mar. 1
	Adv. Mar. 1 and 8.	
Mar. 31	Water Softening Plant—San Diego, Calif.	Mar. 8
Apr. 2	Head-Gate Track, etc. — Florence, Ala.	Mar. 8
	Adv. Mar. 8.	
Apr. 3	Dredging, etc. — Jacksonville, Fla.	Mar. 8
	Adv. Mar. 8.	
Apr. 5	Piling—Louisville, Ky.	Mar. 8
	Adv. Mar. 8.	
Apr. 10	Lock—Newburg, Ind.	Mar. 1
	Adv. Mar. 1 and 8.	
Apr. 12	Machinery, etc. — Honolulu, H. T.	Mar. 1
	Adv. Mar. 1 and 8.	
Apr. 16	Tunnel, etc. — Mitchell, Neb.	Mar. 1
May 10	Post Office — Cordova, Alaska	Jan. 25

MISCELLANEOUS

Mar. 12 Bulkhead and Filling—Mineola, N. Y. .....Mar. 8
Adv. Mar. 8.
Mar. 12 Gas Mains—St. Petersburg, Fla. .....Mar. 8
Mar. 12 Cement, Gravel, etc. — Phila., Pa. .....Mar. 8
Mar. 12 Materials—Clinton, Ia. .....Mar. 8
Mar. 13 Centrifugal Pump — Peru, Ind. .....Mar. 8
Mar. 13 Paving Blocks — New York, N. Y. .....Mar. 8
Mar. 13 Levee Work — Clarksdale, Miss. .....Mar. 1
Mar. 14 Tank Trailors — Hackensack, N. J. .....Mar. 1
Adv. Mar. 1 and 8.
Mar. 14 Cable, etc.—Niagara Falls, N. Y. .....Mar. 8
Mar. 14 Lumber, etc. — Washington, Ia. .....Mar. 1
Mar. 15 Graders and Tractors — Crookston, Minn. .....Mar. 1
Mar. 15 Dry Dock Machinery—Esquimalt, B. C. .....Feb. 22
Mar. 15 Asphaltic Cement, etc. — St. George, N. Y. .....Mar. 8
Mar. 16 Sand, Stone, Gravel, etc. — Erie, Pa. .....Mar. 8
Mar. 16 Special Work — New York, York, N. Y. .....Mar. 8
Mar. 19 Power Plant Machinery — Jacksonville, Fla. .....Mar. 8
Adv. Mar. 8.
Mar. 20 Elevating Grader, etc.—St. Cloud, Minn. .....Mar. 1
Mar. 21 Road Tractor — Granite Falls, Minn. .....Mar. 8
Mar. 22 Steel Frame—New Orleans, La. .....Mar. 8
Adv. Mar. 8.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

Pa., Johnsonburg—New York—Pennsylvania Paper Co. plans developing new water area in Silver Creek Valley by drilling at least 100 wells, wit 10 in. air compressor from wells to plant and also 36 in. line. $200,000. Engineer not announced.

La., Baton Rouge—Comn. Council having plans prepared for complete new waterworks and sewerage systems, light and power system, grading and paving present streets, etc., $1,000,000 or more. J. W. Billingsley, Interstate Bank Bldg., New Orleans, consult. engr. P. Converse, Interstate Bank Bldg., New Orleans, associate engr.

Tenn., Morristown — Plans reservoir, 1,000,000 gal. capacity, for municipal water plant. J. F. Mathes, supt.

O., Warren — Plans purchasing 50 ton more or less c.i. pipe. G. T. Hecklinger, city clk.

Ind., South Bend—Election soon to vote on bonds for waterworks station and improvements. $400,000. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Feb. 8.

Minn., Lamberton—Plans water main extensions, 18,500 lin.ft. c.i. pipe, 22 hydrants, etc. $27,000. F. A. Beiersdorf, city clk.

Minn., Willmar—Plans to rebuild water plant. $30,000. H. Gunderson, city clk.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids river intake tower, brick, concrete and steel, at new Missouri River waterworks at Howards Bend, 13 mi. west of St. Louis, $335,000; 21 dikes and dredge work, $400,000; road from intersection of Olive St. and Craig Rd. along water main right-of-way to water works, $60,000; engine pits to take care of 7 large pumps, etc., $165,000.

Ark., Booneville—Having revised plans prepared for new water distribution system in Waterworks Dist. 1 and new sanitary sewerage system in Sewer Dist. 1. $90,000. W. L. Winters, 312 Merchants' Natl. Bank Bldg., Ft. Smith, engr.

Ark., Ft. Smith—Having plans prepared for extensions to mains and laterals, 3,000,000 gal. high service reservoir and miscellaneous equipment. Kiersted & Stringfellow, 611 Interstate Bldg., Kansas City, Mo., engrs.

Tex., Wichita Falls—City Council soon takes bids for additional pumping unit, direct connected motor and pump, 10,000,000 gal. capacity. $5,000. F. M. Rugeley, city engr.

Okla., Ardmore—City takes bids early in April, waterworks improvements, involving 21,000 ft. c.i. pipe and fittings. A. B. Payne, Ardmore, engr.

Okla., Sayre—March 13, to vote on $35,000 bonds enlarging reservoir, new pipe lines and extensions to distribution system, 6,000 ft. 10 in. c.i. pipe. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Wash., Camas—Plans to purchase existing waterworks $60,000 and expend $100,000 on extension, or building new waterworks, probably gravity system, $160,000. Address City Engineer.

Wash., Port Angeles—North Pacific Public Service Co. plans enlarging distribution system, installing settling basin, new standpipe, 50,000 gal. capacity. $70,000.

Calif., Cutler—Cutler Public Utility Dist. plans to vote on $27,000 bonds for waterworks system.

Calif., Venice—Defeated $350,000 bonds for water system. Noted Feb. 8.

Ont., Bridgeburg—Plans water filtration plant. $30,000. H. G. Patriarche, town clk.

Ont., Capreol—Plans waterworks system and fire protection service, incl. pumps, c.i. pipe, hydrants, valves, pumphouse and reservoir. $50,000. Engineer not selected.

Ont., Hamilton—Plans chlorination plant in connection with waterworks system. E. R. Gray, city engr.

Ont., Oshawa—Plans installing additional filtering units, incl. Ransome drifting sand filters. W. C. Smith, Town Hall, engr.

Ont., Toronto—Plans new water mains, $355,330, extension to existing mains, $24,611, mostly 6 and 8 in. pipe; 80,000,000 imp. gal. pump at waterworks station, $113,122. R. C. Harris, city engr.

Ont., Toronto — Plans extending high pressure fire system in Bathurst Dist. south of Queen St. between John and Bathurst Sts., incl. 20,000 ft. c.i. pipe 20 in. up. $418,791. R. C. Harris, city engr.

BIDS DESIRED

Conn., Wallingford—March 23, by Bd. Comrs., pipe laying and excavation of ditches. W. A. MacKenzie, engr. and mgr.; adv. this issue. Noted March 1.

N. Y., Elmira—Elmira Water Bd. receiving bids 6 and 8 in. Class B, c. i. pipe (carload lots), A.W.W.A. specifications or equivalent.

N. Y., New York—March 13, by Water Supply, Gas & Electricity, Municipal Bldg., mains in Bway., Amsterdam, 10th and 11th Aves., West 51st, 54th, 57th and Clarkson Sts., Manhattan Boro.

N. Y., New York — March 14, by Bd. Purch., Municipal Bldg., furnishing, delivering, unloading, stacking and storing c.i. pipe, special and valve box castings, valves, and double nozzle fire hydrants, to Water Supply Gas & Electricity.

N. Y., New York—March 16, by N. J. Hayes, comn. Water Supply, Gas & Electricity, Municipal Bldg., hauling and setting valves and making connections to existing trunk mains in various streets, Manhattan Boro.

N. Y., St. George—March 16, by N. J. Hayes, comn. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Tompkins Circle, Alberta, Atlantic, Barnes, Burton, Carlton, Cedar, Central, Curtis, Delafield, Demorest, Dixon, Elm, Florida, Forest, Isabella, Hett, Lake, Liberty, Livermore, Madsen, Oak, Palmer, Pendleton, Pennsylvania, Perry, Pleasant Plains, Post, Quincy, Terrace, Ward and Woodland Aves., Catherine, Depuy, Murray, Pine, 3rd, 4th, 5th, 10th, 11th, 13th and 14th Sts., Delafield Ford, Laforge and Whittaker Places, Eltingeville Blvd., Wakefield, Willowbrook and Woods of Arden Rds., here.

Pa., Cresson—April 1, by Boro. Council, first unit of filtration plant to contain 2 sedimental tanks, one digestion chamber and sledge bed, $12,000, also 1,600 ft. 18 in. vitr. sewers in Main and 2nd Sts. D. W. Dillman, 80-81 Altoona Trust Bldg., Altoona, engr.

Md., Baltimore—March 14, by Mayor and City Council, furnishing and delivering curb stop and roadway valve boxes. W. A. McGraw, engr. Water Dept.

W. Va., Wheeling—April 4 (change of date), 20,000,000 gal. filtration plant, pumping station, steel reservoirs, force mains, distribution system, piping and appurtenances. C. H. Dowler, city mgr.; adv. this issue. Noted March 1.

Fla., St. Petersburg—March 12, by City Comrs., extending waterworks system. $160,000. R. E. Ludwig, dir. pub. wks. Noted Nov. 23.

La., Elkton—March 14, reservoir, tank and tower, mains, well, an ice making plant, incl. 5,200 ft. 4 and 6 in. and 10,000 ft. 2 in. c.i. pipe. $35,000. H. A. Mentz, Magnolia, Miss., engr.

La., New Orleans—April 26, by Sewerage & Water Bd., furnishing 1500-1800 hp. water tube boilers. A. G. Moffat, secy.; adv. this issue.

O., Columbus—See "Streets and Roads."

Ill., Mount Greenwood—March [illegible] by Bd. Local Impvts., Village Hall, c.i. mains in various streets. M. L. Cusack, pres.; adv. this issue.

Mich., Clawson — March 14, by A. D. Hodges, village clk., laying 9,000 ft. 6 and 8 in. c.i. mains. $20,000. Ruhling, Holdsworth & Hudson, 16549 Woodward Ave., Detroit, engrs. Noted Oct. 12.

Mich., Muskegon—March 12, by E. D. Prescott, city clk., furnishing and laying c.i. mains with valves and hydrants, 3,600 ft. Class B 8 in. bell an spigot pipe, 3,200 ft. 6 in. pipe, 11 four in. fire hydrants, three 8 in., five 6 in. and four 4 in. gate valves, also 70,000 gal. steel tank on 4 post steel tower, 100 ft. high, concrete foundation, one 350 gal. and one 500 gal. centrifugal pumping units, pumping station building, receiving well and infiltration gallery on south shore of Bear Lake. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Wis., Milwaukee — March 20, at office Central Bd. Purchases, Item 1, three 54 in. flanged gate valves with bevel gears. Item 2, (a) three 42 in. flanged gate valves with by-pass, hand operated with bevel gears, (b) two 42 in. gate valves with hub ends and by-pass, hand operated with bevel gears, (c) six 4 in. flanged gate valves. Item 3 three 54 in. flanged horizontal check valves with by-pass, all built for 150 lb. working pressure. G. Stall, city engr.

Wis., Wauwatosa—March 16, by A. V. Bingham, secy. Bd. Pub. Wks., furnishing and erecting one 1,000 gal. per minute centrifugal pump or turbine connected to 220 volt, 3 phase, 60 cycle electric motor.

Wis., Waupun — March 15, by F. M. Bennett, secy. Water and Light Comn., furnishing and erecting 80,000 gal. steel tank on 77 ft. steel tower and 60,000 gal. steel tank on existing stone tower. W. G. Kirchoffer, Dean Bldg., Madison, engr. Noted March 1.

Minn., Lake City—March 19, by H. V. Flick, city clk., water main extensions, 33,870 lin.ft 6 in. and 768 lin.ft. 4 in. main, sixty-four 4 in. and one 5 in. hydrants, forty-seven 6 in. valves and boxes, 18,000 lb. specials, 29 connections to present mains. $57,000. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, engr. Noted June 22.

Okla., Weatherford—March 27, by R. Dickerson, city clk., 2 centrifugal pumps, 500 hp. oil engine power plant, 20 ton distilled water ice plant, buildings and appurtances. $100,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Feb. 15.

Neb., Davenport—March 20, by Village Clerk, steel tank on steel tower, 4 and 6 in. pipe, valves, fittings, hydrants, 8 in. well, pump and pump house. $25,000. Prince-Nixon Eng. Co., 501 Peters Trust Bldg., Omaha, engrs. Noted Feb. 8.

BIDS RECEIVED

Conn., Easton—Bridgeport Hydraulic Co., Main and Gilbert Sts., Lake Easton reservoir, 6,000,000,000 gal. capacity, concrete dam, 1,000 ft. long, 125 ft. high, 95 ft. wide at base, on Mill River, in towns of Easton and Trumbull, involving 400,000 bags cement, sand, gravel, crushed stone, steel bars, etc., 7 mi. 30 in. c.i. pipe line from lake to Bridgeport. $1,500,000. Work will be done by day labor. Private plans.

Md., Baltimore—Mayor and City Council, pig lead for Water Dept., from J. Robertson Lead Co., 827 South Howard St., $8.85 per 100 lb.

Md., Baltimore—Mayor and City Council, pipe, couplings and iron fittings, from Crane Co., 624 West Pratt St., $9,752; Wallace Stebbins & Sons, Charles and Lombard Sts., $9,899; Southern Supply Co., Calvert and Saratoga Sts., $10,095.

O., Cleveland—Cuyahoga Co. 8,398 ft. 6 and 8 in. c.i. mains for Improvement 23 of Co. Water Dist., from Hadded & Karial, Schofield Bldg., $37,342; Joseph Co., 877 Orange Ave., $46,574.

Minn., St. Paul—H. W. Austin opened bids March 19, rein.-con. reservoir, 18,000,000 gal. capacity, from W. J. Hoy Co., Metropolitan Life Bldg., Minneapolis, $250,017; Swenson, Hankinson Co., 202 Bremer Arcade, $271,421; Grant-Smith Co., 905 Exchange Bank Bldg., $279,929. Noted Feb. 8.

CONTRACTS AWARDED

Mass., Holyoke—Bd. Water Comrs., 500 ft. 4 in., 2,000 ft. 6 in., 2,000 ft. 8 in. 1,000 ft. 12 in. and 7,400 ft. 24 in. pipe, to Donaldson Iron Co., Emaus, $57.50 per ton, $64,000. Noted Feb. 8.

Mass., Warren—Complete installation of water pipe system line throughout town, incl. piping work, reservoir, pumping plant and wells, to Hanscom Constr. Co., 141 Milk St., Boston. Engrs. est. $200,000. Noted Nov. 16.

N. J., Gloucester—City Council, City Hall 3,000,000 gal. rapid sand filtration plant, etc to Good Roads Co., Phila. (street addrs not available), $39,403. Noted Feb. 1.

Waterworks (Continued)

Ill., Carlyle—To Illinois Constr. Co., Springfield, (street address not available) filtration plant, here, Item 1 $1,232, Item 2 $6,632, Item 3 $1,268, Item 4 $2,063, Item 5 $365, Item 6 $1,659, Item 7 $3,081, Item 8 $180, Item 9 $651, Item 10 $128, Item 11 $273, Item 12 $1,210, Item 13 $462, Item 14 $19,305. Noted Feb. 1.

Pa., Zelienople—Boro. Council, 1 story, 21 x 36 ft. filter plant, two 300,000 gal. per day mechanical filter units and auxiliaries, one 350 gal. per minute centrifugal low lift pumps, to W. J. Maglaughlin, Park Bldg., Pittsburgh. Engrs. est. $25,000. Noted Jan. 25.

N. C., Charlotte—For 47,000 ft. c.i. pipe and fittings for extension to city water lines, to Lynchburg Fdry. Co., Lynchburg, Va. $43,605.

O., Columbus—See "Streets and Roads."

Mich., Detroit—Furnishing 500 ton 6, 8, 10 and 12 in. c.i. pipe to Lynchburg Fdry. Co., Lynchburg, Va., $50.70 per net ton; 12,300 ft. Universal c.i. pipe to Central Fdry. Co., 41 East 42nd St., New York City, $3.55 per ft.; 7,900 ft. 24 in. lock bar steel pipe to East Jersey Pipe Co., 7 Dey St., New York City, $5.99 per ft.

Mich., Ferndale—Laying 7,720 ft. 10 and 12 in. c.i. mains, together with backfilling, to L. Kovorkian, Pontiac, $15,000. Noted Feb. 8.

Wis., Milwaukee—Furnishing and installing three 42 in. Venturi tube meters for Riverside Pumping Station, to Simplex Valve & Meter Co., 5722 Race St., Phila., $7,050. Noted Jan. 25.

Wis., Milwaukee—Will lay 16,370 lin. ft. 6-8 in. mains in State Rd., Mason, Melvin, Pine, Harriman, Sumner, Lemlwah, Douglas, Fairview, Appleton, Morrison, Candee and Harris Sts., by day labor. $25,000. G. Staal, city engr.

Minn., Minneapolis—For 40,000 ft. 6 in., 16,000 ft. 8 in. and 10,000 ft. 12 in. bell and spigot c.i. pipe, to Amer. Cast Iron Pipe Co., Acipco St., Birmingham, Ala., $60,000; 110 ton special water castings, to Amer. Brake Shoe Fdry. Co., 37th Ave. N.E. and University Ave., $8,000; 400 ton special sewer castings, to Crown Iron Wks. Co., Tyler St., $25,000. Noted Feb. 8.

Minn., St. Paul—City, 30 in. and 42 in. c.i. pipe, to United States Cast Iron Pipe and Fdry. Co., Amer. Trust Bldg., Birmingham, Ala., $189,000. Noted Jan. 4.

Minn., St. Paul—For two hundred and fifty 6 in., thirty-five 8 in., sixteen 16 in., five 20 in. and one 24 in. hub end, nut operated, non-rising steam valves, etc., for Water Dept., to South Park Fdry. & Mchy. Co., 23 East 6th St., $5,415, and Iowa Valve Co., 727 Pillsbury Ave., St. Paul, $5,235.

Minn., St. Paul—Water Dept., disc type water meters, etc., as follows: one thousand ¾ in. with couplings, two thousand 1 in. type with spuds, couplings, and connections, fifteen 1 in. type, fifty 1¼ in., fifty 1 in. type with couplings, fifty 2 in. type with couplings, to Gamon Meter Co., 282 South St., Newark, N. J., $26,675; five 42 in., two 36 in., fourteen 30 in. and one 24 in. hand operated gate valves, to Kennedy Valve Mfg. Co., East Water St., Elmira, N. Y., $6,892; 100 ton special castings to St. Paul Fdry. Co., Como Ave. and Mackubin St., at about $150 per ton; one 12,000 gal. steel gasoline tank with pump, etc., to E. R. Tarnoski, 328 Metropolitan Bank Bldg., $750. Noted Jan. 25.

Kan., Republic—Installing waterworks, to E. K. Ladd & Co., 3229 Harrison St., Kansas City, $18,258; 50,000 gal. tank on 60 ft. tower, to Chicago Bridge & Iron Co., 608 South Dearborn St., Chicago, $4,500; pumping equipment to Terry, Cowan & Smith, Davidson Bldg., Kansas City, Mo., $1,725.

Tex., Corsicana—For 12,000 residence water meters, to Badger Mfg. Co., 156 Clinton St., Milwaukee, Wis., $8.79 each; 12,000 water box tops, iron to Washington Iron Wks., Sherman, $1.65 each.

Okla., Wynnewood—For 150,000 gal. elevated tank, 2 mi. pipe line, 2 wells, 350 hp. power plant, electric distribution system and transmission line, etc., to Sherman Machine Co., 18 East Main St., Oklahoma City, $61,263. Noted Feb. 22.

B. C., Vancouver—Furnishing 3,100 ft. 18 in. diam. $\frac{7}{16}$ in. thick riveted steel pipe, to Vancouver Eng. Wks., 519 6th Ave., $3.12 per ft. Pipe will be laid by day labor. Noted Feb. 8.

Sewers

PROPOSED WORK

Pa., Oil City—Plans sanitary sewer for Oil Creek. $75,000. J. Webber, city engr.

N. C., Salisbury—See "Industrial Works."

La., Baton Rouge—See "Waterworks."

Ark., Booneville—See "Waterworks."

Colo., Greeley—April 3, to vote on $200,000 bonds for storm and sanitary sewers. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs.

Calif., Long Beach — See "Streets and Roads."

Calif., Venice—Defeated $300,000 bonds for sewerage system. Noted Feb. 8.

Ont., Leamington—Plans sewerage disposal plant. A. Smith, chn. com.

Ont., Niagara Falls — Stamford Twp. plans vitr. tile sanitary sewers in Stanley, 7th Ash, Culp and Victoria Sts., 8 in. up. $200,000. M. Kerr, Twp. Hall, engr.

Ont., Toronto — Plans 15,000 ft. relief sewers in Macdonnell, Cowan, Starr and Spencer Aves., Queen St. W., King St. W. and Dominion St. $373,000. R. C. Harris, city engr.

B. C., Nelson — Having plans prepared and takes bids in about 2 months sewers in Fairview Dist. $56,000.

BIDS DESIRED

N. Y., Kenmore—March 21, new sewerage system. W. Ducker, 160 Tremaine Ave., pres.

N. Y., Mamaroneck—March 22, by E. L. Howe, village clk., completing sewage disposal works. Fuller & McClintock, 170 Bway., New York City, engrs. J. M. Duffy, village engr.; adv. this issue.

N. Y., New York—March 15, by W. J. Flynn, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Strang Ave. between Grace Ave. and East 233rd St., East 233rd St. between existing drain at Edenwald and Barnes Aves., Laconia Ave. between East 233rd and East 232nd Sts., East 232nd St. between Laconia Ave. and existing sewer west of Bronxwood Ave., Edenwald Ave. between Grace and Edson Aves., Bussing Ave. between Edson and Digney Aves., Baychester Ave. between Strang Ave. and East 232nd St., Edson Ave. between Strang and Bussing Aves., Bruner Ave. between Edenwald and Bussing Aves., Gunther Ave. between East 233rd St. and Bussing Ave., Boyd Ave. between Edenwald and Bussing Aves., Bronxwood Ave. between East 233rd and East 232nd Sts., Digney Ave. between Bussing and Barnes Aves., Mayflower Ave. between Wilkinson Ave. and Pelham Parkway S., East 195th St. between Mayflower and Hobart Aves., East 197th and East 196th Sts. between Mayflower and Continental Aves., Pilgrim Ave. between Morris Park and Wilkinson Aves., Mayflower and Pilgrim Aves. between Morris Park and Buhre Aves., Theriot Ave. between Wood Ave. and Summit north of Archer St., Cruger Ave. between Burke and Adee Aves., Taylor Ave. between Seward and Sound View Aves. and across Sound View Ave. at Taylor Ave., west side of Sound View Ave. between change of grade just north of Taylor and Randall Aves., east side of Sound View Ave. between Taylor and Randall Aves., Roebling Ave. between Appleton and Mayflower Aves., Roebling Ave between Mayflower and Edison Aves., Orloff Ave. between Van Cortlandt Ave. and Cannon Pl., Cannon Pl. between Orloff Ave. and Summit westerly therefrom. Burnet Pl. betweeen Garrison Ave. and Barry St., Mace Ave. between Barker Ave. and Bronx Park East; temporary connections in Laconia Ave., East 232nd St., Edison Ave. at Bussing Ave., and Digney Ave. at Pitman Ave.

N. J., Newark—March 20, by Passaic Valley Sewerage Comrs., 128 Market St., constructing Union Outlet Sewer Connection, on westerly side of Riverside Ave. at Newark-Belleville City Line, here. J. R. Van Duyne, ch. engr.

Pa., Cresson—March 15, for 720 lin.ft. 18 in., 1,150 lin.ft. 20 in. and 1,200 lin.ft. 6 in. vitr. clay lateral sewers. D. W. Dillman, 80-81 Altoona Trust Bldg., Altoona, engrs.

Pa., Cresson—See "Waterworks."

Fla., St. Petersburg—March 12, by City Comrs. constructing storm and sanitary sewers. $463,000. E. C. Garvin, St. Petersburg, engr. Noted Nov. 23.

Ky., Paducah—March 20, at office H. A. Pulliam, comr. Pub. Wks., 14,833 ft. 10-42 in. sewers; adv. this issue. Noted March 1.

O., Perrysburg — March 13, by J. W. Lyons, village clk., main outlet sewer in Elm St. Dist. 1, 1,585 lin.ft. 60 in., 665 lin.ft. 54 in., 640 lin.ft. 48 in., 650 lin.ft. 42 in., 710 lin.ft. 36 in. and 1,530 lin.ft. 30 in. sewers, 773 lin.ft. 12-27 in. pipe sewer, 12 standard and 3 drop manholes, etc. G. Champe, 610 Nasby Bldg., Toledo, engr.

Ind., South Bend — March 20, by Dept. Pub. Wks., sewers in William, Brookfield, Calverts, Kinyon, Keller, Medora, Victoria, Clyde, Lafayette and Marietta Sts., Indiana and Fairview Aves., Oak Park Court, and Parkovash. V. C. Sweeney, clk.; adv. this issue.

Minn., Lake City—March 19, by H. V. Flick, city clk., sanitary sewerage system, 59,303 lin.ft. 8-18 in. sewer pipe, manholes, flush tanks, etc., 6,600 lin.ft. 8-33 in. storm sewer, 11 manholes, 75 storm water inlets, 266 lin.ft. 8 in. and 2,108 lin.ft. 10 in. inlet connections. $100,000. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, engr. Noted Dec. 1.

Mo., Sugar Creek—March 12, by C. E. Deland, city clk., constructing 11,042 lin.ft. 10-15 in. vitr., 96 lin.ft. 10-14 in. c.i. and 280 lin.ft. 12-16 in. wrought steel sewers, 1,560 lin.ft. 0-6 ft., 2,080 lin.ft. 6-8 ft., 4,382 lin.ft. 8-10 ft., 2,010 lin.ft. 10-12 ft., 830 lin.ft. 12-14 ft., 85 lin.ft. 14-16 ft., 110 lin.ft. 16-18 ft., 361 lin.ft. 18-20 ft. trenching, 23 cu.yd. concrete in piers, 500 cu.yd. rock in trench, etc. Black & Veatch, Mutual Bldg., Kansas City, engrs.

Ont., Riverside—March 15, by R. W. Code, engr., McGregor Bldg., Windsor, sewers and sewage disposal plant. $200,000.

Ont., Toronto—April 10, by C. A. Maguire, mayor, 3,000,000 imp. gal. centrifugal sewage sludge pump and motor. R. C. Harris, city engr.

BIDS RECEIVED

Pa., Phila.—Opened bids Feb. 21, sewers in (1) Ashdale St. (2) Charles St. (3) Pratt St. (4) Grays Ave., from Lombardi & Co., Lincoln Bldg., (1) $19,430 (2) $52,675; A. Pascuzzi, Lincoln Bldg., (1) $14,564; A. DeVito, 1721 Hicks St., (2) $49,572 (3) $5,452 (4) $5,698; O'Neill Co., 127 East Mermaid Lane, (2) $39,985 (3) $6,787; Higgins & Reilly, Real Estate Trust Bldg., (3) $9,265 (4) $7,852; W. H. Garson, 5033 Brown St., (4) $6,375. Noted Feb. 15.

Neb., Omaha — Constructing sanitary sewers in Dist. 785, between 14th and 20th Sts., H St. to J St., 5,573 lin.ft. 8-27 in. concrete or clay pipe, 10,695 lb. c.i., from J. P. Connolly, 430 World Herald Bldg., $14,477; Dist. 786, 37th St. from Ames Ave. to Paxton Blvd., 1,470 lin.ft. 8-18 in. clay or concrete pipe, 2,325 lb. c.i., etc., and Dist. 788, J St. from 15th to 16th Sts., 260 lin.ft. 8 in. clay or concrete pipe, from J. S. Harrington, 3001 Mason St., $2,060 and $238 respectively; Dist. 787, W St., 385 lin.ft. 8 in. pipe, etc., from J. Jensen, 2625 Wirt St., $458.

Calif., Stockton—See "Buildings."

CONTRACTS AWARDED

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sanitary sewer in Sand Lane, etc., to J. W. Murphy, 8866 26th Ave., Brooklyn, $59,645. Noted Feb. 22.

Miss., Canton—See "Streets and Roads."

O., Akron—W. F. Peters, dir. Pub. Serv., 2,680 ft. 114 in. brick sewer in Willow Run Trunk Sewer Contr. 3, to T. E. McShaffrey Constr. Co., 171 South Forge St., $226,238, engrs. est. $234,000; 6,010 ft. 8-27 in. vitr. sewer in Case Ave., to J. T. Bates, 868 East Buchtel Ave., $26,904, engrs. est. $26,000. Noted March 1.

O., Columbus—See "Streets and Roads."

Mich., Detroit—Whitney & Hollinger Co., 408 Detroit Savings Bank Bldg., 11,000 ft. 6, 8 and 10 in. vitr. crock sewers in Morningside subdivision, to O. Schultz, c/o owner, $25,000.

Ill., Arthur — Sewer improvements, to James & Shinn, Mattoon, $24,846.

Wis., Milwaukee—Sewerage Comn., 4,200 ft. 42 in. rein.-con. intercepting sewer in various streets, to G. E. Zimmerman, 3402 Grand Ave., $134,179. Noted Feb. 22.

Minn., Minneapolis—Vitr. clay sewer pipe, various sizes, to Red Wing Sewer Pipe Co., Red Wing, about $38,000. Noted Feb. 8.

Kan., Ft. Scott—To Ammerman & Snyder, Ft. Scott, sanitary sewer in Dist. 8, incl. 15 yd. plain concrete $25 per yd., 6,446 yd. earth excav. $1.20, 430 yd. shale $3.60, 3,665 yd. rock $6, 38 standard manholes $78 each, 10 flush tanks $100 each, 1,134 ft. 12 in., 1,340 ft. 10 in. and 11,891 ft. 8 in. D. S. pipe, $0.90, $0.65 and $0.50 per ft., etc., total $44,326; sanitary sewer in East Side Dist. 2, 8.3 cu.yd. plain concrete $25, 9,850 cu.yd. earth excav. $1.20, 3,120 cu.yd. rock excav. $6, 600 cu.yd. shale $3.60, 50 manholes standard size $75 each, 17 flush tanks $120 each, 4,739 lin.ft. 12 in. D. S. V. C. pipe incl, Y's $1, 16,778 ft. 8 in. standard VC pipe incl. Y's $0.50, etc., total $54,041.

Neb., Lincoln — Constructing sewers, to A. Phelps & Sons Knoxville, Ia. Engrs. est. $175,000.

Calif., Lodi—Constructing sewage disposal plant, to Davis-Heller-Pearce Co., Delta Bldg., Stockton, $83,169. Noted March 1.

Waste Disposal

PROPOSED WORK

O., Youngstown—Plans election to vote on $125,000 bonds for garbage incinerator plant.

Ont., Coburg—Plans garbage incinerator. B. Ewing, town clk.

BIDS DESIRED

Fla., Tampa—March 27, by A. Brown, mayor, constructing incinerator plant, 50 ton daily capacity.

Fla., St. Petersburg—March 12, by City Comrs., constructing new incinerator and repairing old one. $125,000. E. C. Garvin, St. Petersburg, engr.

BIDS RECEIVED

Pa., Phila.—Opened bids Feb. 24, foundation for Harrowgate incinerator, 36,000 cu.yd. excav., 1750 cu.yd. mass concrete and 56,000 lb. reinforcing, from G. F. Dobbins, 4615 Springfield Ave., $91,638; Brown-King Constr. Co., Commercial Trust Bldg., $96,321; Lombardi & Co., Lincoln Bldg., $105,653.

N. D., Fargo—A. R. Watkins, city and opened bids Jan. 24, for 35 ton garbage incinerator plant, from Superior Garbage Incinerator Co., Dallas, Tex., 35 ton, $25,895, 60 ton $44,865; Jones Odorless Garbage Crematory Co., Syndicate, Trust Bldg., St. Louis Mo., $26,870; T. Ostbye & Son, (address not available) $27,000; Nve Odorless Crematory Co., Georgia Life Bldg., Macon, Ga., $30,000; H. Dollar Hide Co., (address not available) $35,000; Decarie Incinerator Co., McKnight Bldg., Minneapolis, Minn., $47,100. Noted Dec. 7.

CONTRACTS AWARDED

Calif., San Francisco—See "Buildings."

Bridges

PROPOSED WORK

N. Y., Niagara Falls—Niagara Falls Power Co., plans replacing present iron bridge, 30 ft. wide, with new and modern concrete structure, 60 ft. wide, across Niagara River, on Buffalo Ave. To exceed $50,000. F. L. Lovelace, secy. Engineer not announced.

Pa., Leamersville—Comrs. Blair Co., Altoona, plan concrete and steel bridge over Juniata River, here. $25,000.

Pa., Tipton—Comrs. Blair Co., Altoona, plan rein.-con. bridge over Juniata River, here, to replace one which recently collapsed. Cost to exceed $30,000. Engineer not announced.

North Carolina—State Hy. Dept., Raleigh, having plans prepared and soon takes bids constructing rein.-con. bridges and culverts on State Project 293, Wilson Co., $33,600; State Project 392, Robeson Co., $35,000; State Project 971, Madison Co., $61,600; State Project 437, Harnett Co., $36,000; State Project 213, Craven Co., $50,400. C. M. Upham, state highway engr.

South Carolina—See "Streets and Roads."

Kan., Kansas City—Having plans prepared 100 ft. steel and rein.-con. bridge over Turkey Creek on Kansas Ave., 40 ft. roadway, two 10 ft. sidewalks. $25,000. R. L. McAlpine, City Hall, engr.

Missouri—State Hy. Dept., Jefferson City, plans two 20 ft. rein.con. slab, one 25 ft. rein.-con. girder, three 30 ft. and three 40 ft. rein.-con. deck girder, and one 60 ft. steel truss spans, 20 ft. roadways, 16 rein.-con. abutments, 2 rein.-con. piers, on road from St. Louis to Festus, State Project Route 9, Jefferson Co.; six 25 ft. and one 40 ft. I beam, one 80 ft. steel truss and twenty 10 ft. rein.-con. slab spans, 20 rein.-con. piers, creosoted wood pile bents, 4 rein.-con. abutments, 4 rein.-con. bents, on road from Fisk to Dexter, State Project Route 16, Stoddard Co.; one 25 ft. and one 35 ft. rein.-con. deck girder, one 20 ft. rein.-con. slab and one 80 ft. steel truss spans, 20 ft. roadways, 8 rein.-con. abutments, on road from De Soto to Potosi, State Project Route 21, Sect. 4, Washington Co.; one 60 ft. steel truss span, 2 rein.-con. abutments, 20 ft. roadway, on road from St. Louis to Springfield, State Project Route 14, Phelps Co.; five 120 ft. truss spans, 4 rein.-con. piers, 2 rein.-con. bents, over Little Piney River, on road from St. Louis to Springfield, State Project Route 14, Phelps Co.; one 20 ft. rein.-con. slab, one 35 ft., one 30 ft. and two 25 ft. rein.-con. deck girder spans, 20 ft. roadways, 8 rein.-con. abutments, 1 rein.-con. bent, on road from Appleton City to Henry Co. line, State Project Route 24, St. Clair Co.; one 100 ft. steel truss span, 20 ft. roadway, 2 rein.-con. abutments, over Johnson Creek, on road from Phelps to Halltown, State Project Route 14, Sect. 9, Lawrence Co.; three 60 ft. steel truss and one 30 ft. rein.-con. deck girder spans, 2 rein.-con. piers, 2 rein.-con. bents, 2 rein.-con. abutments, 20 ft. roadway, on road from Oregon to Savannah, State Project Route 1, Andrew Co.; fifteen 20 ft. rein.-con. slab spans, 20 ft. roadway, etc., over Bowdry Lake, on road from Waverly to Carrollton, State Project Route 3, Carroll Co.; one 35 ft. rein.-con. deck girder span, 2 rein.-con. abutments, 20 ft. roadway, over Hooker Branch, on road from Waynesville to Arlington, State Project Route 14, Pulaski Co.; one 80 ft. steel truss span, 2 rein.-con. abutments, 20 ft. roadway, over Drainage Ditch, on road from North Kansas City to Liberty, State Project Route 1, Clay Co.; one 30 ft. I beam, one 80 ft. and one 70 ft. steel truss spans, 6 rein.-con. bents, 20 ft. roadway, on road from Portageville to Arkansas State line, State Project Route 9, Sect. 142, Pemiscot Co.; three 70 ft. steel truss spans, 2 rein.-con. piers, 2 rein.-con. bents, 20 ft. roadway, over Turnback Creek, on road from Phelps to Halltown, State Project Route 4, Sect. 9, Lawrence Co.; one 60 ft. steel truss span, 2 rein.-con. abutments, 20 ft. roadway, over Billies Creek, on road from Phelps to Halltown, State Project Route 14, Sect. 10, Lawrence Co.; three 100 ft. steel truss spans, 2 rein.-con. piers, 2 rein.-con. bents, 20 ft. roadway, over Nodaway River, on road from Oregon to Savannah, State Project Route 1, Holt Co.; one 20 ft. rein.-con. slab and one 25 ft. rein.-con. deck girder spans, 4 rein.-con. abutments, 20 ft. roadways, on road from Neosho to Anderson, State Project Route 1, Sect. 108, McDonald Co.; two 70 ft. steel truss spans, 20 ft. roadways, 4 rein.-con. abutments, one over Cypress Creek and other over Logan Creek, on road from Doniphan to Poplar Bluff, State Project Route 42, Sect. 12, Ripley Co., one 40 ft. rein.-con. deck girder span, 2 rein.-con. abutments, 20 ft. roadway, over Dicks Creek, on road from Golden City to Lamar, State Project Route 36, Sect. 6, Barton Co.; four 80 ft. steel truss spans, 3 rein.-con. piers, 2 rein.-con. bents, over Salt River, on road from Shelbyville to Shelbina, State Project Route 15, Sect. 23, Shelby Co.; one 35 ft. and three 40 ft. rein.-con. deck girder spans, 2 rein.-con. piers, 2 rein.-con. bents, 2 rein.-con. abutments, 20 ft. roadways, on road from Fredericktown to Jackson, State Project Route 9, Sect. 101, Bollinger Co.; one 120 ft. and two 80 ft. steel truss spans, 2 rein.-con. piers, 2 rein.-con. bents, 20 ft. roadway, over Cedar Creek on road from Jefferson City to Columbia, State Project Route 7, Callaway Co.; one 100 ft. steel truss span, 2 rein.-con. bents, 20 ft. roadway, over Turkey Creek, on road from Jefferson City to Columbia, State Project Route 7, Callaway Co.; one 25 ft. rein.-con. deck girder span, 2 rein.-con. abutments, 20 ft. roadway, on road from Neosho to Goodman, State Project Route 1, Sect. 107, Newton Co.; one 40 ft. rein.-con. deck girder span, 2 rein.-con. abutments, 20 ft. roadway, over branch of Fabines River, on road from Lancaster to Kirkville, State Project Route 7, Schuyler Co.; one 40 ft. rein.-con. deck girder span, 2 rein.-con. abutments, 20 ft. roadway, over Salt River, on road from Greentop to Queen City, State Project Route 7, Schuyler Co. B. H. Piepmeier, state highway engr.

Tex., Ft. Davis—See "Streets and Roads."

Ontario—See "Streets & Roads."

Ont., Galt—Plans new bridge over Speed River, probably steel. $50,000. D. T. Black, city engr.

BIDS DESIRED

N. H., Franconia—March 15, by F. E. Everett, comr. State Hy. Dept., Concord, one 90 ft. steel truss bridge over South Branch River, here. $25,000. State Hy. Dept., Concord engrs.

Pa., Leamersville—March 23, by Comrs. Blair Co., (Hollidaysburg) 90 ft. concrete arch bridge here. D. A. McCloskey, Hollidaysburg, engr.

Fla., St. Petersburg—March 12, by City Comrs., constructing several concrete arch bridges across Bookers Creek. $79,000. E. C. Garvin, St. Petersburg, engr. Noted Nov. 23.

Ohio—See "Streets and Roads."

O., Bowling Green—March 26, Comrs. Wood Co., for Oregon Rd. Bridge. E. E. Coriell, aud.; adv. this issue.

O., Cincinnati—See "Streets and Roads."

Wis., Eau Claire—March 22, by State Hy. Comn., at office of Div. Engineer, 213 South Barstow St., constructing Madison Street Bridge over Chippewa River, on State Trunk Highway 12. W. C. Buetow, bridge engr.; adv. this issue.

Kan., Holton—See "Streets & Roads."

Utah—March 12, by State Rd. Comn., Salt Lake City, 75 bridge, with abutments, approaches and 1,000 ft. pavement, incl. furnishing and fabricating steel, over Coal Creek near Cedar City, Iron Co., $39,000. H. C. Means, state road engr.

Ontario—See "Streets and Roads."

Ont., Alvinston—March 14, by J. McCallum, road supt., 150 ft. concrete and steel bridge, 18 ft. roadway. $40,000.

Ont., Brantford—March 24, by C. S. Moyer, chn. Pub. Wks., c/o City Clerk, 3 span rein.-con. arch bridge, 300 ft. long, 64 ft. wide, over Grand River. $335,000. F. P. Adams, city engr. Noted Jan. 11.

Ont., Brigden—March 14, by J. McCallum, road supt. Lambton Co., Alvinston, or J. A. Huey, co. clk., Sarnia, 150 ft. steel highway bridge on concrete abutments 18 ft. roadway, over Bear Creek, Moore Twp. $40,000. G. A. McCubbin, Chatham, co. engr.

BIDS RECEIVED

Virginia—See "Streets and Roads."

La., New Orleans—Dept. Pub. Finances, Purch. Div., Room 24, City Hall, opened bids Feb. 14, furnishing and erecting Scherzer rolling lift bridge over Navigation Canal at intersection of Broad St., from Pensacola Shipbuilding Co., Little Bayou, Pensacola, Fla., $53,000, Doullut & Williams Co. Inc., 816 Howard Ave., $58,900. Noted Jan. 18.

Tex., Liberty—Liberty Co. concrete bridges, concrete culverts and pile trestles, 7,380.16 cu.yd. concrete, 687,769 lb. reinforcing, etc., from Tibbetts Constr. Co., 209½ 8th St., Ft. Worth, $217,995; Smith Bros., 311 Central State Bank Bldg., Dallas, $222,194; Brown-Abbott Co., Laraine, $226,496.

Calif., Santa Ana—Orange Co., constructing bridge in 2nd Rd. Dist. on Coast Highway, eleven 30 ft. spans on concrete piles, 55 ft. steel girder, from W. Ledbetter Co., Pacific Electric Bldg., Los Angeles, $62,500; Wheeler Co., Los Angeles Ry. Bldg., Los Angeles, $66,000; Mercereau Bridge Co., 313 North Ave. 22, Los Angeles, $73,000.

CONTRACTS AWARDED

N. Y., Massena—F. A. Hough, town clk., substructure for bridge over Grasse River, to P. C. Rock Co., Antwerp, $38,251; superstructure, to Phoenix Bridge Co., Phoenixville, $167,500. Noted Feb. 8.

Pa., Pittsburgh—Allegheny Co., Court House, substructure piers and abutments for bridge, (2,744 ft. long, 15 spans), over Allegheny River on 40th and Foster Sts., to H. C. Converse & Co., Devonshire St., Boston, Mass., $854,692. Noted Dec. 7.

S. C., Kingstree—See "Streets and Roads."

Alabama—See "Streets and Roads."

Wis., Merrill—Rein.-con. bridge, three 70 ft. spans, to Wausau Iron Wks., 738 South 10th St., Wausau, $32,940. Noted Feb. 15.

Minnesota—State Hy Dept., St. Paul, Bridge 3753 on State Project 1-35, 580 ft. steel girder, in Northfield, Rice Co., and Bridge 3886, State Project 3-37, Federal Aid Project 239, 162 ft. steel girder, in Kelloff, Wabasha Co., to Illinois Steel Bridge Co., 552 Gilfillan Blk., St. Paul, $40,480 and $25,970 respectively; Bridge 3940, State Project 1-39, 230 ft. rein.-con. and steel, over Chicago, Rock Island & Pacific R.R. tracks, in Owatonna, Steele Co., to L. E. Baum, 2305 Ogden Ave., Superior, Wis., $17,435. Noted Jan. 25.

Minn., Crookston—Polk Co., Bridge 3880, steel truss, two 170 ft. spans and one 150 ft. span, to Minneapolis Bridge Co., 924 Metropolitan Life Bldg., Minneapolis, $47,000. Noted Sept. 21.

Kan., Leavenworth—Concrete slab on 4½ mi. Federal Aid Project 13 Sects. D and F, 18 ft., to J. Stanton, 6th and Kiowa Sts., $2,645 per sq.yd., total $150,812. Noted Feb. 15.

Missouri—State Hy. Dept., Jefferson City, one 35 ft. reinforced deck girder and one 80 ft. steel truss spans, 2 rein.-con. bents, 2 rein.-con. abutments, on State Project Route 8, Sect. 12, Caldwell Co., to Highway Constr. Co., Tulsa, Okla. (street address not available). $25,861. Noted Feb. 22.

Missouri—State Hy Dept., Jefferson City, to J. P. Wolfenbarger, Neosho, one 25 ft. concrete deck girder span, 2 rein.-con. abutments, 20 ft. roadway, over Meeks Branch, State Project Route 1, Sect. 106, Newton Co., $6,283; to W. A. Ross, Kansas City (street address not available) one 25 ft. rein.-con. deck girder and three 50 ft. steel truss spans, 20 ft. roadways, 2 rein.-con. piers, 2 rein.-con. bents on State Project Route 2, Sect. 6, Jackson Co., $23,103, one 100 ft. high truss steel span and one 50 ft. low truss steel approach span, 2 rein.-con. piers, 2 rein.-con. bents, over Little Blue River, State Project Route 2, Sect. 4, Jackson Co., $26,009, one 60 ft. low steel truss span and one 20 ft. rein.-con. slab approach span each end, 20 ft. roadway, 2 rein.-con. piers, 2 rein.-con. bents, over east fork of Little Blue River, on State

Bridges (Continued)

Project Route 2, Sect. 4, Jackson Co., $13,448; to Illinois Steel Bridge Co., Jacksonville, Ill., five 40 ft. I-beam and one 20 ft. rein.-con. slab spans, 20 ft. roadway, 6 creosoted wood pile bents skewed, 2 rein.-con. abutments, State Project Route 4, Sect. 18, Gentry Co., $19,876, one 140 ft. steel truss and twelve 20 ft. I-beam spans, 2 rein.-con. piers, 12 creosoted wood pile bents, etc., over west fork of Grand River, State Project Route 4, Sect. 18, Gentry Co., $30,439, one 100 ft. and two 50 ft. steel truss spans, 20 ft. roadway, 2 rein.-con. piers, 2 rein.-con. bents, over middle fork of Grand River, State Project Route 4, Sect. 18, Gentry Co., $25,882; to Muskogee Constr. Co., Tulsa, Okla. (street address not available) one 60 ft. steel and one 20 ft. rein.-con. slab spans, 20 ft. roadway, 4 rein.-con. abutments, on State Project Route 34, Sect. 13, Wayne Co., $11,412; to C. Parker, Keytesville, one 80 ft. steel truss and four 20 ft. concrete slab spans, 2 concrete piers, 4 rein.-con. bents, over Palmer Creek, State Project Route 10, Sect. 24, Chariton Co., $15,674; to Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, one 120 ft. and two 76 ft. steel truss spans, 20 ft. roadway, 14 creosoted wood pile and 1 rein.-con. bents, 2 rein.-con piers, over Castor River Diversion Channel, State Project Route 51, Sect. 24, Bollinger Co., $57,268, one 60 ft., one 160 ft. and one 80 ft. steel truss spans, 2 concrete piers, 2 rein.-con. bents, 20 ft. roadway, over Grande Glaize River, State Project Route 15, Sect. 63, Camden Co., $43,860; to Pittsburg-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., five 30 ft. I-beam spans, 20 ft. roadway, 6 creosoted wood pile bents, over Squaw Creek D.D., State Project Route 1, Sect. 14, Holt Co., $8,843; to General Constr. Co., Syndicate Trust Bldg., St. Louis, one 30 ft. rein.-con. deck girder and one 80 ft. steel truss spans, 20 ft. roadways, 4 rein.-con. abutments, State Project Route 14, Sect. 36, Laclede Co., $14,605; to W. H. and G. H. Turner, Memphis, one 140 ft. steel truss span, 2 rein.-con. abutments, over north fork of South Fabins River, State Project Route 15, Sect. 11, Knox Co., $19,437; to Carterville Constr. Co., Carterville, one 50 ft. steel truss, one 40 ft. rein.-con. deck girder and one 20 ft. rein.-con. slab spans, 20 ft. roadway, 6 rein.-con. abutments, on State Project Route 14, Sect. 7, Lawrence Co., $19,598; to Koss Constr. Co., 2818 5th Ave., Des Moines, Ia., five 80 ft. rein.-con. spandrel filled arch spans, 2 rein.-con. abutments, 4 concrete piers, on State Project Route 14, Sect. 42, Pulaski Co., $44,035; to Allhands & Davis, 705-6 Frisco Bldg., Joplin, four 30 ft. rein.-con. deck girder spans, 2 rein.-con. piers, 20 ft. roadway, over Cowskin Creek, State Project Route 40, Sect. 20, Douglas Co., $13,513; to G. E. Stoner, Charleston, one 100 ft. steel truss span, 20 ft. roadway, 2 rein.-con. abutments, over North Cut D.D., State Project Route 55, Sect. 6, Scott Co., $17,884; to Reynolds, Bloker & Crews, Caruthersville, one 70 ft. steel truss, three 30 ft. and four 20 ft. I-beam spans, 20 ft. roadway, 2 rein.-con. piers, 8 rein.-con. bents, over Drainage Ditch, State Project Route 9, Sect. 51, Pemiscot Co., $22,834; to Powell, Gouen Co., Collinsville, Ill., one 40 ft. rein.-con. deck girder span, 20 ft. roadway, 2 rein.-con. piers, over Butte Creek, State Project Route 19, Sect. 4, Crawford Co., $5,057; to J. P. Sparks, Kirkwood, one 60 ft. steel truss span, 2 rein.-con. abutments, 20 ft. roadway, over Crooked Creek, State Project Route 9, Sect. 52, Lincoln Co., $13,269. Noted Dec. 28 and Feb. 22.

Dams

PROPOSED WORK

Mo., Annapolis—C. T. Dana et al., International Life Bldg., St. Louis, having preliminary plans prepared 800 ft. rein.-con. and steel power dam, 100 ft. high, 2,000 to 5,000 hp., to furnish power for Annapolis Lead Co. mines, etc., near here. $1,000,000. W. A. Fuller, 1917 Ry. Exch. Bldg., St. Louis, engr.

BIDS DESIRED

Ill., Beardstown—See "Excavation, Drainage, Irrigation."

BIDS RECEIVED

Illinois—G. R. Miller, dir. Dept. Pub. Wks. and Buildings, Div. Waterways, Springfield, opened bids Feb. 28, Starved Rock Lock and Dam, Illinois Waterway Contr. 2, La Salle Co., (a) to complete work in 2 years, (b) to complete work in 3 years from Byrne Bros. Constr. Co., 358 East 115th St., Chicago, (a) $1,309,442, (b) $1,135,693; C. E. Carson Co., 601 St. Clair St., Chicago, (a) $1,717,880, (b) $1,668,800; Green & Sons Co., 705 Tower Bldg., Chicago, (a) $1,919,795, (b) $1,889,795. Noted Feb. 1.

CONTRACTS AWARDED

Conn., Easton—See "Waterworks."

Railways

PROPOSED WORK

North Carolina—State Legislature authorized $10,000,000 bonds to aid in construction of 5 lines of railway, about 125 mi., in northwestern mountain counties. $50,000 appropriated for surveys. State to own 49% of stock. M. Squires, Lenoir, state senator, is one of comrs. for State's interest. Engineer not selected.

CONTRACTS AWARDED

Alabama—Alabama Great Southern R.R., Cincinnati, O., grading roadbed and placing culverts on 20 mi. railroad from Centerville to Woodstock, to Goodrich Constr. Co., Anniston, $183,709.

Excavation, Drainage, Irrigation

PROPOSED WORK

N. C., Dunn—H. L. Godwin plans to organize drainage district and vote on bonds to drain 200,000 acres in Great and Little Coharie, and Seven Mile Swamps, in Sampson Co., near here. F. A. Bartel, U. S. Drainage Engr. of Drainage Dept., Wash., D. C., advising engr.

N. D., Grand Forks—Grand Forks Co., takes bids in spring for drainage ditch 9 mi. long, 260,000 cu.yd. dry earth excav. $33,000. J. Ingram, Grand Forks, engr.

N. D., Grand Forks—Grand Forks Co. plans 3 drainage ditches, one 4½ mi. long, one 5 mi. long and other 2½ mi. long, incl. 140,000 cu.yd. excav. $25,000. J. Ingram, Grand Forks, engr.

Mo., St. Louis—See "Waterworks."

BIDS DESIRED

Ill., Beardstown—March 29, by Comrs. South Beardstown Drainage & Levee Dist., 1st State Bank Bldg., enlarging old sand and dirt levees, also building 5 dams. L. B. Kinsey, Pekin, engr. Former bids rejected, adv. this issue. Noted Feb. 15.

Colo., Lamar — March 27, at office of Granada D.D., Markham Bldg., constructing drainage system. E. H. Gerecke, secy.; adv. this issue.

CONTRACTS AWARDED

Minn., Olivia—Renville Co., Co. Ditch 85A, 7 mi. open ditch, 267,861 cu.yd. excav., to Mulgrew & Sons, Dubuque, Ia. (street address not available, $0.11 per cu.yd., $29,465; 228,200 lin.ft. 5-24 in. tile, 5 concrete bridges, 3 wood pile bridges, to Kircher Bros., Olivia, $77,491. Noted Jan. 11.

Calif., Paradise — Paradise Irrigation Dist., lining 13,100 lin.ft. canals, involving 117,000 sq.ft. 1½ in. rein.-con., to W. Brown, Paradise. Noted Feb. 1.

Streets and Roads

PROPOSED WORK

N. Y., Jamestown—Plans widening 4th St. from 40 ft. to 54 ft., asphalt. $25,000. L. O. Bergman, City Hall, engr.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., withdrew bids grading, setting curb and laying sidewalks, etc., on Yates Ave., $45,000. Will readvertise. Noted March 1.

Pa., Johnstown—City Comrs. opens bids about April 15, paving 9,000 ft. Wonder St. from Franklin St. to city line and Fairfield Ave. from Hayes St. to city line, brick on concrete. $80,000. H. L. Wilson, city engr.

Pa., Nanty-Glo—Comrs. Cambria Co. open bids about April 11, paving 2nd St. from Cardiff St. to Twin Rocks Co. improved road, 2,000 ft., 26 ft. wide, and 2,700 ft. 18 ft. $60,000. D. E. Bradley, Ebensburg, engr.

Pa., Scranton—Plans to pave Woodlawn St., sheet asphalt and stone blocks on concrete. $48,717. W. LaFontaine, dir. pub. wks.

Pa., Scranton—Plans paving Pettebone St. $36,440, South Garfield Ave. $10,614, South Lincoln Ave. $14,914, all sheet asphalt and stone blocks on concrete. W. Lafontaine, dir. pub. wks.

Pa., Warren—Plans 1 mi. brick pavement. $25,000.

Maryland—State Rds. Com., Baltimore, plans to expend $3,500,000 for road construction and $1,600,000 for maintenance during 1923. J. N. Mackall, chn.

Md., Baltimore—Plans paving with sheet asphalt, 39th St. from St. Paul to Charles Sts., Charles and St. Paul Sts., and streets north and south of 39th St. $90,000.

Va., Norfolk — W. E. Rew, city engr., takes bids about March 15, widening and repaving 2,907 yd. Gates Ave. and 1,432 yd. Brandon Ave. from Armsteads Bridge Rd. to Clarmont, 1,125 yd. North Brandon Ave. from Armsteads Bridge Rd. to Gates Ave., 1,382 yd. Spottswood Ave. from Claremont to Armstead Bridge Rd., 1,590 yd. Granby St. from La Vallett St. to Tanners Creek, all foregoing with asphalt, 1,400 yd. Brooke Ave., Durex.

West Virginia—State Rd. Com., Charleston, appropriated $15,000,000 for road work during 1923 and 24. Of this amount, about $6,000,000 will be let to contract during this year. J. K. Monroe, project engr.

North Carolina—State Hy. Dept., Raleigh, plans grading and waterbound macadam paving 6.74 mi. road from Hot Springs to Tennessee line, State Project 971, Madison Co., $139,100, 3.54 mi. Lenoir-Blowing Rock Rd., State Project 723, Caldwell Co., $114,950, 5.67 mi. road from end of Project 801 to road 69, near Cranberry, State Project 802, Avery Co., $119,600, 2.92 mi. on part of Project 930, State Project 930 A, Graham Co., $33,850; grading and topsoiling 8.6 mi. road from Mecklenburg Co. line to Stanley Co. line, State Project 616, Cabarrus Co., $47,400, 10.74 mi. from Lillington to Duke, State Project 437, Harnett Co., $41,900, 1.15 mi. approaches to bridge through swamp, State Project 392, Robeson Co., $31,660; grading and concrete or asphaltic paving 11.66 mi. from Waynesville to Canton, State Project 944, Haywood Co., $375,000, 6.84 mi. from Buncombe Co. line to Rutherford Co. line, State Project 835, Henderson Co., $282,500, 3.53 mi. from Jefferson east, State Project 713 A, Ashe Co., $108,800, 7.51 mi. from Asheboro to Deep River, State Project 578, Randolph Co., $255,700, 12.89 mi. from Delco to Bolton, State Project 329, Columbus Co., $383,900, 9 mi. from Wilson to Greene Co. line, State Project 293, Wilson Co., $265,400, 10.43 mi. from Fort Barnwell to Jasper, State Project 213, Craven Co., $350,300; clearing and grading 7.81 mi. State Project 485 A, Wake Co., $38,200, 7.45 mi. from Durham Co. line to Hillsboro, State Project 457 A, Orange Co., $56,300; grading, topsoiling and constructing small rein.-con. structures, 6.42 mi. from Northampton Co. line to Aulander, State Project 146, Hertford and Bertie Counties, $38,500, 22.52 mi. from Montgomery Co. line to Aberdeen, State Project 570, Moore Co., $85,400; grading, concrete or asphaltic paving and constructing small rein.-con. structures on 8.57 mi. from Statesville to Rowan Co. line, State Project 643, Iredell Co., $286,800, 11.83 mi. from Edenton to Hertford, State Project 115, Chowan Co., $223,400; paving with 10 ft. sand asphalt 4.39 mi. State Project 151 B, Hyde Co., $72,500. C. M. Upham, state highway engr.

N. C., Rowland—Plans improving various streets, 5,383 sq.yd. paving, 1,515 lin.ft. curbing, 9,339 sq.yd. sidewalk, etc. Ryan Eng. Co., Arcade Bldg., Columbia, S. C., engrs.

South Carolina — State Hy. Dept., Columbia, plans to expend $2,000,000 for road and bridge work. C. H. Moorefield, state highway engr.

Florida—State Rd. Dept., Tallahassee, plans to expend $3,000,000 during 1923; $500,000 will be allowed for maintenance and balance for new construction. W. F. Cocke, state highway engr.

Fla., Bradentown—Plan election to vote on $76,000 bonds paving various streets. L. L. Hine, city clk.

Mississippi—State Hy. Dept., Jackson, plans to let contracts during year for 50 mi. hard surfaced roads, cost $1,750,000, and 300 mi. graded and gravel surfaced roads, $4,250,000. H. C. Dietzer, highway engr.

La., Baton Rouge—See "Waterworks."

Kentucky—Dept. State Roads & Highways, Frankfort, appropriated $7,701,157 for construction and maintenance of state roads during year (it is probable that additional appropriations in amount of $2,500,000 will be made during year). J. S. Boggs, state highway, engr.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids in April, grading, laying sidewalks and paving 1,400 ft. South St., 28 ft., 2,670 lin.ft. stone curb, 14,600 sq.ft. sidewalk, 2,400 cu.yd. earth excav., 4,650 sq.yd. vitr. brick or asphalt on concrete, $40,000; 1,780 ft. Crozier St., 28 ft. 3,070 lin.ft. stone curb, 18,900 lin.ft. sidewalk, 3,800 cu.yd. earth excav., 4,910 sq.yd. vitr. brick or asphalt on concrete, $40,500; 1,500 ft. Bellows St., 26 ft., 2,825 lin.ft. stone curb, 17,500 sq.ft. sidewalk, 4,100 cu.yd. earth excav., 4,200 sq.yd. vitr. brick or asphalt on concrete, $39,300; 700 ft. Washington St., 24 ft., 1,280 lin.ft. stone curb, 6,600 lin.ft. concrete sidewalk, 1,000 cu.yd. earth excav., 1,740 sq.yd. vitr. brick or asphalt on concrete, $15,200; 1,700 ft. West North St., 30 ft., 3,730 lin.ft. stone

Streets and Roads (Continued)

curb, 25,750 sq.ft. concrete sidewalk, 5,300 cu.yd. earth excav., 7,910 sq.yd. vitr. brick or asphalt on concrete, $52,000; 3,000 ft. Springdale, Annadale, Hite and Rothrock Sts., 24 ft., 1,270 lin.ft. stone curb, 1,140 lin.ft. concrete gutter, 28,000 sq.ft. concrete sidewalk, 8,700 cu.yd. earth excav., 2,400 sq.yd. vitr. brick or asphalt on concrete, $34,000. E. A. Kemmler, Delaware Bldg., engr.

O., Canton—Stark Co. plans grading and paving Sect. B Pigeon Run Rd., brick, asphalt or macadam. $46,000. G. Sickafoose, co. surv.

O., Canton—Stark Co. plans grading and paving 2.71 mi. Sect. A Whipple Rd., 16 ft., $108,000; 2.13 mi. Sect. A Redubam-McDonaldsville Rd., 16 ft., $85,000, both brick, asphalt or macadam. G. Sickafoose, Court House, engr.

O., Columbus — Making plans grading, laying necessary water systems and sewer connections and paving Woodland Ave. from alley west of same from Richmond Ave. to Granville St., 390 ft. long, 20 ft. wide, brick $2,356, concrete $1,886; alley north of Richmond Ave. from Parkwood Ave. to alley west of Woodland Ave., 367 ft. long, 15 ft. wide, brick $2,349, concrete $1,879; alley west of Champion Ave. from Sycamore to Kossuth Sts., 1,087 ft. long, 20 ft. wide, brick $10,743, concrete $9,123; Capitol St. from Belvidere to Whitethorne Aves., 394 ft. long, 20 ft. wide, brick $2,919, concrete $2,282; alley west of Cypress Ave. from Town to Rich Sts., 392 ft. long, 16 ft. wide, brick $2,729, concrete $2,218; alley west of Chicago Ave. from alley north of Broad St. to Cable Ave., 591 ft. long, 15 ft. wide, brick $3,552, concrete $2,779; Brehl Ave. from Town St. to Sullivant Ave., 1,346.5 ft. long, 50 ft. wide, brick $20,886, asphalt $17,723; alley north of 8th Ave. from alley west of Neil to Michigan Aves., 386 ft. long, 18 ft. wide, brick $2,865, concrete $2,290; alley north of 7th Ave. from Michigan Ave. to Perry St., 590 ft. long, 16 ft. wide, brick $3,630, concrete $2,850; Sydney St. from 5th to Leona Aves., 1,186 ft. long, 50 ft. wide, brick $24,438, asphalt $22,611; Williams St. from Northwood to Maynard Aves., 1,010 ft. long, 20 ft. wide, brick $14,154, asphalt $12,752; Torrence Rd. from High St. to Breevoort Rd., 1,318 ft. long, 60 ft. wide, brick $20,871, asphalt $18,021; Piedmont Rd. from Torrence Rd. to Indianola Ave., 1,706 ft. long, 60 ft. wide, brick $70,454, asphalt $62,279; Brevoort Rd. from High St. to Torrence Rd., 1,400 ft. long, 60 ft. wide, brick $23,686, asphalt $20,713; Dunedin Rd. from High St. to Northmoor Pl., 1,992 ft. long, 50 ft. wide, asphalt $35,587; Weston Pl. from Northmoor Pl. to Winthrop Rd., 931 ft. long, 50 ft. wide, asphalt $16,115; Medbrook Way from Torrence to Winthrop Rds. 958 ft. long, 50 ft. wide, asphalt $13,232; Irving Way from Weston Pl. to Winthrop Rd., 1,030 ft. long, 50 ft. wide, asphalt $16,967; sanitary sewer in the alley north of Hosack St. from 6th to 4th Sts., 3rd St. from alley north of Hosack St. to 3rd alley north of Hosack St. and alley north of Hinkle Ave. from 7th St. to alley west of 5th St., 1,425 ft. 8 in. vitr. pipe, 8 manholes, seventy-six 6-in. "Y" branches, $2,333. R. H. Simpson, city engr.

Ill., Urabana—Champaign Co. voted $2,500,000 bonds constructing 173 mi. hard roads.

Mich., Detroit—Plans to widen Abbott St., 6 ft., Brush St. 6 ft., Clifford St., 6 ft., Antoinette St. from Woodward to Cass Sts., 6 ft. and from 2nd to 3rd Sts., 6 ft., Canfield St., 8 ft., Baltimore St. from Woodward to Brush Sts., 8 ft., and from Woodward to Lincoln Sts., 8 ft., Brush St. from Canfield to Ferry Sts., 8 ft. and from Subway to Grand Blvd., 8 ft., Brainard St., 3 ft., Brush St., 4 ft., Gratiot St. from Mt. Elliott to Rohns Sts., 4 ft., and from Rohns St. to point 300 ft. east of Harper Ave., 4 ft., Elizabeth St., 5 ft., Elmwood Ave., 7 ft., Brush St., 10 ft., Canfield St., 10 ft., Chene St., 10 ft., Forest St. from Brush Farm Line to Woodward Ave., 12 ft. and from 12th to 14th Sts., 12 ft., Forest St., 14 ft., 14th St., 14 ft., Cass St. from Warren to Colburn Sts., 15 ft. and from Selden to Warren Sts., 15 ft., and from Temple to Stimson Sts., 15 ft., Forest St., 16 ft., all foregoing work to be done with 3½ in. sheet asphalt on 8 in. concrete; resurfacing with 3½ in. sheet asphalt, Abbott, Alexanderine, Amsterdam, Atwater, Beaubien, Bellevue, Brush, Chene, Custer, Delaware, Fairview, Farmer, Ferry, 4th and Gladstone Sts., Fort St. from 5th to Trumbull Sts., 5th to 8th Sts., 17th to Clark Sts., Artillery to Green Sts. and Green to Wilkie Sts., 14th St. from Temple to Buchanan Sts. and from Warren to Kirby Sts., Grand River Ave. from Woodward to Cass St. and from Cass to Trumbull Sts., Congress St. from Randolph to Brush Sts., and from Hastings to Mt. Elliott Sts. J. W. Reid, city engr.

Mich., Royal Oak—Having plans prepared paving Lincoln Ave. from Woodward Ave. to Knowles St., Center St. from 1st to Hudson Sts., Catalpa Dr. from Woodward Ave. to Main St., Washington Ave. from 1st St. to Catalpa Dr., and University Ave. from Main St. to Virginia Ave., 1 course concrete or asphalt on concrete. P. H. Beauvais, city engr.

Ia., Centerville—Soon takes bids 1.75 mi. road, 18 ft., 80,000 yd. brick or concrete. F. J. Stewart, Centerville, engr.

Neb., Omaha—Douglas Co. soon takes bids paving Q St. Rd. to Millard, 5 mi. Bennington Rd. No. 9 and 10 mi. Military Rd. from point 1¼ mi. south of Bennington to Elkhorn River, vitr. brick, asphalt or concrete. $1,000,000. L. E. Adams, Court House, engr.

Kan., Girard—Comrs. Crawford Co. soon takes bids constructing 11.8 mi. Jefferson Highway. 18 ft., chat. $50,000. C. M. Cooper, co. engr.

Kan., Kansas City—Wyandotte Co. takes bids in about 4 weeks grading, paving etc. 3¾ mi. Wolcott Rd., 16 ft., alternate bids on concrete and bituminous macadam. O. K. Williamson, co. engr.

Kan., St. Francis—Comrs. Cheyenne Co. soon take bids grading and bridging 14 mi. Federal Aid Project 145, 28 ft. $70,000. Kansas Eng. Co., Topeka (street address not available), engrs.

South Dakota—State Hy. Dept., Pierre, plans grading and gravel surfacing 12.25 mi. Federal Aid Project 39, between Mitchell and Ethan, Davison Co., incl. 75,000 cu.yd. excav., 22,050 cu.yd. gravel, 36,000 lb. reinforcing steel, one 40 ft. steel truss, etc.; 12.3 mi. Federal Aid Project 138, Lawrence and Meade Counties, incl. 37,800 cu.yd. common and rock excav., 22,140 cu.yd. gravel or limestone surface, 115 cu.yd. concrete, $83,834; 8.5 mi. Federal Aid Project 102, Lincoln Co., 72,000 cu.yd. excav., 250 cu.yd. concrete, 25,000 lb. reinforcing steel, one 45 ft. concrete viaduct, $34,067. F. D. Hudgins, state engr.

Status of state road programs for 1923 is outlined for several states, on p. 471 of the Business Side of Construction. Last week this information was given for ten other states.

S. D., Aberdeen—Brown Co. having plans prepared constructing 24 mi. road, some gravel surfacing. $40,000. L. C. Kranhold, aud.

S. D., Yankton—Yankton Co. plans to gravel surface 100 mi. of road. $300,000.

Mo., Joplin—Making plans 19,000 yd. 1 course 5 in. concrete pavement. $26,000. S. P. Ashcroft, City Hall engr.

Mo., New Franklin — Preparing plans Telford or asphalt paving and granite or concrete curbing about 1 mi. Broadway and Missouri Aves., 24 to 90 ft. wide. $70,000. C. E. Smith, Ry. Exch. Bldg., St. Louis, engr.

Mo., St. Louis—Plans improving 1,439 ft. Delor St. from Gravois to Ray Aves., 36 ft., 2,750 lin.ft. granite curb, 9,000 cu.yd. earth excav., 5,600 sq.yd. warrenite bitulithic, $32,650; opening and widening 24,000 ft. Hampton Ave. from Oakland to Gravois Aves., 80 ft., $83,000; will pave same with warrenite bitulithic or refined asphalt on concrete at later date, cost $1,100,000. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—See "Waterworks."

Tex., Abilene — City Comn. soon takes bids paving Oak St. from 2nd to 4th Sts., Pine St. from 3rd to 5th Sts., Hickory St. from 1st to 2nd Sts., 30 ft., brick, bitulithic or concrete. $25,000. H. H. Batjer, Abilene, engr.

Tex., Beaumont—City Comn. opens bids about March 12, paving Pine, Mariposa, Panin and Railroad Sts., bituminous and other types. $125,000. R. M. Fulweiler, city engr. Noted Feb. 22.

Tex., Cameron — Comrs. Milam Co. plan to improve highways in Rd. Dist. 30. $32,000 bond issue available. A. F. Mitchell, co. engr.

Tex., Cleburne — Johnson Co., making plans and soon takes bids clearing, gravel surfacing, etc. 10.86 mi. State Highway 2-E, 18 ft., 250 cu.yd. concrete, 55,300 cu. yd. roadway, 50,700 cu.yd. borrow and 2,000 cu.yd. rock excav., 21,000 lb. reinforcing, 24,050 cu.yd. gravel surfacing. $115,000. G. W. Courter, co. engr.

Tex., Ft. Davis—Jeff Davis Co. making plans grading, surfacing with waterbound macadam and bridging 19.5 mi. State Highway 12, 16 ft. $200,000. H. Schroeter, co. engr.

Tex., Houston—City Comn. soon takes bids paving with high class bituminous pavement Lovett Blvd. from Montrose to Graustark Sts., 50 ft. $25,000. J. C. McVea, city engr.

Tex., La Grange — Attorney Generals Dept., Austin, approved $50,000 bond issue for highway improvements in Rd. Dist. 3. A. Schlafli, co. engr.

Tex., Marlin—Lott Dist., Rd. Dist. 4 of Falls Co. voted $60,000 bond issue for highway improvements. G. W. Courter, co. engr.

Tex., Marlin—Rosebud Rd. Dist. No. 2 voted $100,000 bonds for highway improvements in Falls Co. G. W. Courter, co. engr.

Tex., Rocksprings—Edwards Co. (Rocksprings) and Kerr Co. (Kerrville) take bids within 60 days grading, levelling and macadam topping 18 mi. waterbound macadam highway from here and extending toward Kerrville, 18 ft. $168,000. W. E. Simpson, Natl. Bank Commerce Bldg., San Antonio, engrs.

Okla., Ardmore—Carter Co. having plans prepared 7 mi. concrete and 4 mi. gravel roads, Federal Aid Projects 89, 89A and 69. W. W. Trotter, Ardmore, engr.

Okla., Oilton—Tiger Twp. election March 8, to vote on $300,000 bonds for hard surfacing 20 mi. Albert Pike Highway. R. O. Clark, Oilton, trustee.

Colo., Pueblo—Plans paving with concrete 47,400 sq.yd. in Fountain Ave. Paving Dist. $205,200, 29,600 sq.yd. College Hill Paving Dist. $116,660; warrenite paving 29,000 sq.yd. Bruner Park Paving Dist. $114,300, 12,100 sq.yd. Northern Ave. Paving Dist., $43,900, 15,250 sq.yd. Orman Ave. Paving Dist. $61,250. D. P. Gaymon, Pueblo, engr.

Washington — Legislature appropriated $1,670,000 paving 39 mi. Pacific Highway between Centralia and Vancouver. J. Allen, state highway engr.

Wash., Anacortes—Takes bids in about 30 days paving 3rd and 9th Sts., F, X, M and N Aves. $115,000. Address City Clerk.

Wash., Seattle—Plans paving 3 mi. Fauntleroy Ave. and Avalon Way. $250,000. J. D. Blackwell, city engr.

Calif., Davis — Plans paving various streets. To exceed $25,000.

Calif., Fairfield—Plans paving portions Texas St. and Union Ave. To exceed $25,000. E. N. Eager, city engr.

Calif., Kingsburg—Plans paving portions of 19th and 20th Aves. and Riverside St. To exceed $25,000. J. S. Bates, Rowell Bldg., Fresno, engr.

Calif., Long Beach—Soon takes bids improving Belmont Shore Project, 870,746 sq.ft. 5 in. concrete pavement, 33,610 lin.ft. cement curb, 168,573 sq.ft. cement walks, 10,923 lin.ft. 6-42 in. rein.-con. storm drain, 54,326 lin.ft. 8-24 in. concrete sanitary sewers, 1,377 lin.ft. 12 in. c.i. pipe.

Calif., San Diego—Had plans prepared improving Eagle St., 83,544 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous, 10[illegible] sq.ft. cement concrete sidewalk, etc.; Goldsmith and Evergreen Sts., 101,779 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous. F. A. Rhodes, city engr.

Calif., San Rafael — Takes bids about April 1, 44,000 sq.yd. asphaltic concrete surfacing. $50,000. H. J. Brainerd, city engr.

Calif., Visalia — Tulare Co. plans constructing 2 mi. highway between Dinuba and county line. $25,000. L. A. Moye, co. surv.

Ontario—Dept. Pub. Highways, University Ave. and Dundas St., Toronto, has taken over 35 mi. road from Beaverton, through Fenelon Falls to Bobcageon, and will convert into provincial highway, gravel construction, concrete culverts and bridges, etc. $700,000. G. Hogarth, ch. engr.

Ont., Barrie—Simcoe Co. plans to grade and build macadam and gravel roads. $175,000. R. J. Fletcher, clk.

Ont., Elora—Plans 8,000 sq.yd. concrete pavements. $25,000. H. Clark, town clk.

Ont., Essex—Plans 6 mi. concrete pavements from here to Maidstone. C. M. Fox, Kingsville, chn. com.

Ont., Kingston—Frontenac Co. plans to spend $34,500 for new road construction, mostly macadam, and $60,700 for repairs and maintenance. R. H. Fair, County Bldgs., engr.

Ont., Kingsville—Plans concrete sidewalks and 14,000 sq.yd. asphalt pavements. $60,000. Code & Code, Bank of Hamilton Bldg., Windsor, engrs.

Ont., Pembroke—Soon takes bids paving 5,600 ft. McKay St., asphaltic concrete, con-

Streets and Roads (Continued)

crete curbs and gutters, $92,000; Isabella St., asphaltic concrete with concrete curbs and gutters, $34,000. J. P. Howe, city engr.

Ont., St. Thomas—Plans new asphalt and concrete pavements. $60,000. Prices wanted on all materials. A. Miller, city engr.

Ont., Toronto—Plans grading approaches to Weston Rd. overhead bridge and paving with brick, $21,880, rounding street corners on various streets $57,015, will probably be done by day labor. R. C. Harris, city engr.

Ont., Toronto—Plans paving Parliament St. from Queen to Wellesley Sts., 20,000 sq. yd. asphalt, brick block gutter, concrete curb, $153,143. R. C. Harris, city engr.

BIDS DESIRED

R. I., East Providence (Providence P. O.)—March 22, by W. E. Smith, clk., paving 5,200 yd. Warren Ave., sheet asphalt; 2,400 yd. Waterman Ave., granite block; 8,000 yd. Roger Williams Ave., 3,000 yd. Summitt St., and 6,900 yd. Grove Ave., all bituminous macadam; also paving portion Cobb and Orchard Sts, $75,000. F. E. Waterman Co., 86 Weybosset St., Providence, engrs.

N. Y., Brooklyn—March 14, by E. Riegelmann, boro pres., Boro Hall, curbing and asphalt paving Delamere Pl., Glenwood Rd., Foster and 17th Aves., East 9th, West 25th, West 32nd, 66th and 82nd Sts.

N. Y., Mineola—March 19, by Bd. Supervs. Nassau Co., Court House, improving Park St. W. F. Starks, co. engr.; adv. this issue.

N. Y., New York—March 15, by W. J. Flynn, pres. Bronx Boro, 3rd and Tremont Aves., grading, curbing laying sidewalks, etc. in Yates Ave. from northerly line of Becker property about 235 ft. north of Rhinelander Ave. to Pelham Parkway S, Yates Ave. from Sacket Ave. to northerly line of Becker property about 235 ft. north of Rhinelander Ave., Pierce Ave. from Williamsbridge Rd. to Sacket Ave.

N. J., Pennington—March 12, by Hopewell Twp. Com. at Harts Hall, near here, surfacing road from Harbourton to Rear Tavern, Hopewell Twp., cinders, 3 and 6 in. thick, 8,400 sq.yd. D. M. Voorhees, Pennington, clk.

Pa., Phila.—March 13, by Dept. Pub. Wks., asphalt paving on Clearfield St. from 2nd to Hancock Sts., Ella St. from Indiana to Clearfield Sts., Livingston St. from Ontario to Tioga Sts., Duzerne St. from point 500 ft. east of 2nd St. to Oxford Branch of Penn. R.R., Madison St. from Marston to Etting Sts., Oxford St. from 59th to 60th Sts., Tioga St. from Aramingo to Gaul Sts., Wakeling St. from Hawthorne to Cottage Sts., 16th St. from 67th to 68th Aves., Schedule "A"; granite block repaving on Chestnut St. from 23rd St. to west pier of Schuykill River Bridge, Schedule "B"; redressed granite block repaving on 13th St. from Spring Garden to Girard St., Schedule "C"; curbing and footway work, Schedule "D"; removal of buildings on line of Spring Garden St., Schedule "E"; concrete flue for garage reduction plant, Schedule "F"; furnishing and delivering crushed stone, Schedule "G". F. H. Caven, dir.

Pa., Washington—March 21, by Comrs. Washington Co., Court House, paving 4,200 ft. Langioth Rd., 5 and 6 in. concrete, $40,000, 6,500 ft. Country Home Rd., 5 and 8 in. concrete, $50,000, 2,000 ft. Midway-Steubenville Pike, 5 and 8 in. concrete, $30,000, 3,400 ft. 8 in. concrete crown, 5 in. sides, $40,000, 7.7 mi. Monongahela Pike, 8 in. concrete crown, 5 in. sides, $306,000. Chaney Eng. Co., Washington, engrs.

Va., Charlottesville—March 24, by B. A. Bennett, city mgr., grading, curbing, paving and resurfacing various streets; adv. this issue.

Va., Staunton—March 15, by Bd. Supervs. Augusta Co., paving 2 mi. Spottswood-Newport Rd., 12 ft., crushed rock macadam; 4 mi. road Waynesboro to Lyndhurst, 10 ft., waterbound macadam; 2 mi. road in Pastuero Dist. from end of present macadam road west, 12 ft., compacted gravel. G. Shirley, Richmond, state highway comr.

N. C., Burlington—March 12, by E. B. Horner, mayor, 17,500 sq.yd. pavement, 11,000 ft. combined concrete curb and gutter, storm drains and accesesories. Ludlow Engineers, Winston-Salem, engrs. Noted March 1.

S. C., Aiken—March 14, by Aiken Co., constructing 6.23 mi. State Route 39, 33,505 cu.yd. excav., 15,345 cu.yd. sand clay surfacing, 722 lin.ft. rein.-con. pipe, 139 cu. yd. plain and rein.-con., 6,306 lb. reinforcing. Bd. Co. Comrs., Aiken, engrs.

S. C., Bishopville—March 15, by Lee Co., constructing 4.2 mi. State Route 34, 16,000 cu.yd. excav., 10,468 cu.yd. sand clay surfacing, etc. Bd. Co. Comrs., Bishopville, engrs.

S. C., Gaffney—March 16, by Cherokee Co., constructing 1.7 mi. State Route 8, 35,340 cu.yd. excav., 18,820 sq.yd. plain concrete, sheet asphalt or asphaltic concrete. Cherokee Co. Highway Comn., Gaffney, engrs.

Fla., Tampa—March 20, by A. Brown, mayor, paving 13th St., 17,000 yd. asphalt blocks, 6,000 lin.ft. granite curb, 3,000 cu. yd. excav., 5,000 lin.ft. sub drain. $35,000.

Kentucky—March 14, by State Hy. Comn., Frankfort, improving 6,333 mi. Louisville-Bardstown Rd. from High Grove, Sta. 1128 plus 00 to Cox Creek Post Office, Sta. 1462 plus 39, State Project 3, Sect. B, Federal Aid Project 86, Nelson Co., 38,733 cu.yd. earth 3,669 cu.yd. solid rock and 945 cu.yd. borrow excav., 387 cu.yd. excav. structures, 75,371 lb. reinforcing, 66,105 sta.yd. overhaul, alternate types of surfacing as follows, 66,878 sq.yd. rein.-con., or 63,162 sq.yd. rock asphalt or bituminous concrete with 66,878 sq.yd. concrete base, or 66,878 sq.yd. rock asphalt or bituminous concrete, 21,945 ton crushed limestone, 11,146 cu.yd. napped limestone base, 3,343 ton bonding stone, or 66,878 sq.yd. rock asphalt or bituminous concrete, 15,048 ton crushed limestone, 66,878 sq.yd. modified telford base, 4,180 ton bonding stone, or 150,476 gal. bituminous material for bituminous material for bituminous macadam, 2,508 ton stone chips, 20,900 ton crushed limestone, alternate bases for bituminous surfacing, 13,004 cu.yd. napped limestone base, 3,901 ton bonding stone, or 66,878 sq.yd. modified telford base, 3,901 ton bonding stone; 8.501 mi. Louisville-Bardstown Rd. from Jefferson Co. line, Sta. 675 plus 60 to High Grove, Sta. 1128 plus 00, State Project 3, Sect. A, Federal Aid Project 86, Bullitt, Spencer and Nelson Counties, 59,709 cu.yd. earth, 30,780 cu.yd. solid rock and 42,393 cu.yd. borrow excav., 308,470 sta.yd. overhaul, 97,469 lb. reinforcing, 604 cu.yd. concrete, alternate types of surfacing as follows, 89,767 sq.yd. rein.-con., or 84,780 sq.yd. rock asphalt or bituminous concrete with 89,767 sq.yd. concrete base, or 89,767 sq.yd. rock asphalt or bituminous concrete, 20,197 ton crushed limestone, 89,767 sq.yd. modified telford base, 5,611 ton bonding stone, or 89,767 sq.yd. rock asphalt or bituminous concrete, 29,454 ton crushed limestone, 14,961 cu.yd. napped limestone base, 4,488 ton bonding stone, or 201,976 gal. bituminous material for bituminous macadam, 28,051 ton crushed limestone, 3,366 ton stone chips or pea gravel, alternate bases for bituminous macadam 89,767 sq.yd. modified telford base, 5,236 ton bonding stone or 17,454 cu.yd. napped limestone base, 5,236 ton bonding stone; 19.618 mi. Louisa-Paintsville Rd. from Powhatan St. in Louisa, Sta. minus 23 plus 57.8 to Johnson Co. line at Lowmansville, Sta. 969 plus 28, State Project 6, Sect. B, Federal Aid Project 78, Lawrence Co., 20 acre clearing, 197,082 cu.yd. earth, 15,229 cu.yd. loose rock, 81,665 cu.yd. solid rock and 64,714 cu. yd. borrow excav., 134,750 sta. yd. overhaul, 2,998 cu.yd. cement rubble masonry, 1,295 cu.yd. concrete, 214,731 lb. reinforcing, 4,742 lin.ft. 18 in. and 2,282 lin.ft. 24 in. standard vitr. pipe, 680 cu.yd. 1:3:6 encasing concrete or 4,742 lin.ft. 18 in. and 2,282 lin.ft. 24 in. rein.-con. pipe, etc.; 11.297 mi. Paintsville-Louisa Rd., from paved street in Paintsville, Sta. 0 plus 00 to Lawrence Co. line, Sta. 599 plus 54, State Project 6, Sect. A, Federal Aid Project 77, Johnson Co., 9 acres clearing, 115,742 cu.yd. earth, 2,674 cu.yd. loose rock, 52,993 cu.yd. solid rock and 18,108 cu.yd. borrow excav., 96,801 sta. yd. overhaul, 1,183 cu.yd. cement rubble masonry, 1,243 cu.yd. concrete, 149,480 lb. reinforcing, 1,888 lin.ft. 18 in. and 832 lin.ft. 24 in. standard vitr. pipe, 262 cu.yd. 1:3:6 encasing concrete or 1,888 lin.ft. 18 in. and 832 lin.ft. 24 in. rein.-con. pipe, etc.; 8.301 mi. Lexington-Covington Rd., from 1 mi. north of Crittenden, Sta. 0 plus 00 (Kenton Co. line), to south corporate limits, Dry Ridge, Sta. 446 plus 34, State Project 5, Sect. C, Federal Aid Project 90, Grant Co., 69,694 cu.yd. earth and 3,777 cu.yd. borrow excav., 31,638 sta.yd. overhaul, 214 cu.yd. concrete, 82,795 sq.yd. rock asphalt, bituminous concrete or rein.-con. surfacing, 87,665 sq.yd. concrete base, etc.; 9.416 mi. Whitley City-Tennessee State Line Rd. from Whitley City, Sta. 0 plus 00 to Tennessee State line, Sta. 408 plus 80, not including town of Stearns, State Project 22, Sects. B and C, McCreary Co., 27 acres clearing, 67,034 cu.yd. earth, 208 cu. yd. loose rock, 25,082 cu.yd. solid rock and 2,106 cu.yd. borrow excav., 56,277 sta. yd. overhaul, 261 cu.yd. concrete, 2,038 lin.ft. 18 in. and 564 lin.ft. 24 in. standard vitr. pipe, 250 cu.yd. 1:3:6 encasing concrete or 2,038 lin.ft. 18 in. and 564 lin.ft. 24 in. rein.-con. pipe, surfacing with bituminous macadam or waterbound macadam or waterbound macadam surface treated on slag or limestone base. J. S. Boggs, state highway engr.

Ohio—March 13, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 4.011 mi. Sect. "A" Pomeroy-Marietta Rd., Athens Co., brick $210,681, rein.-con. $184,797. L. C. Herrick, dir. highways.

O., Cincinnati—March 16, by Hamilton Co., grading, bridging and paving with 1 course 10 in. concrete, 8,126 ft. Sharon Ave., 20 ft., $84,414. E. A. Gast, Court House, co. surv. Noted March 1.

O., Cincinnati—March 16, by Hamilton Co. grading and bituminous macadam paving 26,300 sq.yd. Ridge Rd., $40,388. E. A. Gast, Court House, engr. Noted March 1.

O., Cleveland—March 14, paving Beyerle Pl. S. E. from Beyerle Rd. S. E. to Independence Rd. S. E., Central Ave. S. E. from East 14th to East 55th Sts., Carnegie Ave. S. E. from East 100th St. to Fairchild Ave. S. E., Corlett Ave. S. E. from East 116th to East 131st Sts., Henritze Ave. S. W. from West 45th to West 47th Sts., Lamontier Ave. S. E. from Woodhill Rd. S. E. to East Blvd. S. E., Maryland Ave. S. E. from Warner Rd. S. E. to East 85th St., Schade Ave. N. E. from East 61st St. to Norwood Rd. N. E., Stardale Court S. W. from West 44th Pl. to West 42nd St., Tyler Court S. W. and West 39th Pl. from West 35th St. to Daisy Ave. S. W., West 47th and West 48th Sts. from Memphis Ave. S. W. to Ardmore Ave. S. W., Curtiss Ave. N. E. from East 55th to East 59th Sts., Lamont Ave. S. E. from East 93rd St. to point 180 ft. easterly. R. Hoffman, city hall, engr. Noted Jan. 11.

O., Columbus—March 13, by W. H. Duffy, dir. Pub. Serv., grading, curbing, extending water service pipe and sewer connections and repaving 5,944 ft. 4th St. from State St. to Livingston Ave., 52½ ft., asphalt $102,581, brick $100,306, Durax block $120,381. R. H. Simpson, city engr.

Ind., Angola—March 10, by Auditor Steuben Co., grading and graveling 19,780 ft. Osfall Rd., 16 ft. $30,422. F. Hubbell, Angola, engr. Noted March 1.

Ind., Brazil—March 17, by Auditor Clay Co., paving 5,118 ft. National Avenue Rd., 18 ft., 10,237 sq.yd. vitr. brick on concrete, $25,726. F. E. James, Brazil, engr. Noted March 1.

Ind., Hammond—March 19, by Auditor Lake Co., grading and graveling 4 mi. Beaubien Rd., 16 ft., $32,842, and 3 mi. Kaminski Rd., 16 ft., $26,425. R. Seely, Hammond, engr. Noted March 1.

Ind., Laporte—March 10, by Auditor Laporte Co., grading and graveling 17,147 ft. H. F. Carpenter Rd., 16 ft., $26,197, 3 mi. Boehlke Rd., 16 ft., $25,131; 3.1 mi. Kalwitx Rd., 16 ft., $25,743. P. Summy, Laporte, engr. Noted March 1.

Ind., Princeton—March 10, by Auditor Gibson Co., grading and graveling 12,894 ft. Knowles Rd., 20 ft., $25,367; 2.5 mi. Epperson Rd., 16 ft., $25,275; crushed stone surfacing 16,820 ft. E. E. Whiting Rd., 16 ft., $25,350. H. C. Morrison, Princeton, engr. Noted March 1.

Ind., Rockport—March 10, by Auditor Spencer Co., graveling 2.9 mi. Smith Rd., 16 ft. $26,455. Z. X. Bennett, Rockport, engr. Noted March 1.

Ind., South Bend—March 12, by Auditor St. Joseph Co., grading and graveling 2.9 mi. A. Bentter Rd., 16 ft. $27,309. P. R. Gillin, South Bend, engr. Noted March 1.

Ind., Terre Haute—March 10, by Auditor Vigo Co., paving 2,740 ft. Donavon Ave., 36 ft., in West Terre Haute, 10,916 sq.yd. concrete on concrete. $25,230. G. R. Grimes, Terre Haute, engr. Noted March 1.

Ind., Vernon—March 10, by Auditor Jennings Co., crushed stone surfacing 16,100 ft. Haley Rd., 16 ft., $25,242; grading and graveling 14,080 ft. Wilds Rd., 16 ft., $25,789. C. W. Miles, North Vernon, engr. Noted March 1.

Ind., Versailles—March 10, by Auditor Ohio Co., surfacing 19,040 ft. Hanna Rd., 16 ft., 33,824 sq.yd. waterbound macadam. $31,139. J. E. Wright, Versailles, engr.

Wis., Elkhorn—March 13, Walworth Co., Court House, grading and surfacing Lake Geneva-Genoa Junction Rd., commencing at Main St., Lake Geneva and extending 9 mi. southeasterly on State Trunk Highway 12, to present concrete at Genoa Junction, 62,624 cu.yd. unclassified excav., 86,330 sq. yd. 18 ft. concrete surfacing, 14,364 sq.yd. full width concrete surfacing, etc. H. J. Peters, co. highway comr.

Wis., Juneau—March 15, by Dodge Co. Road and Bridge Com., grading, draining and surfacing 5.74 mi. Theresa-Huilsburg Rd. beginning at Huilsburg and extending northerly, 28,700 cu.yd. earth excav., 9,191

Streets and Roads (Continued)

cu.yd. gravel surfacing, etc.; **3.15 mi. Fox** Lake-Markesan Rd., 11,816 cu.yd. earth excav., 5,512 cu.yd. gravel surfacing, etc.; 5.4 mi. Reeseville-Hubbleton Rd., 18,043 cu. yd. earth excav., 8,554 cu.yd. gravel surfacing, etc.; 4 mi. Leroy-Oakfield Rd. beginning at southeast corner, thence northerly 3 mi., and easterly 1 mi., 9,953 cu.yd. earth excav., 6,387 cu.yd. gravel surfacing, etc.; 10.29 mi. Washington Co. line Hustisford Rd., State Trunk Highway 29, beginning at Washington Co. line and extending westerly to end of 1922 concrete, west of Hustisford, Sect. A, 27,347 cu.yd. earth, 1,132 cu.yd. loose rock, 707 cu.yd. borrow excav., 2,000 cu.yd. channel change, 55,238 sq.yd. 18 ft. concrete pavement, etc. Sect. B, 1.5 acres clearing, 29,741 cu.yd. earth, 6,314 cu.yd. borrow, 635 cu.yd. loose and 200 cu.yd. solid rock excav., 53,474 sq.yd. concrete pavement, etc.; **14.7 mi. Waupun-Fox Lake** Randolph Rd., State Trunk Highway 33, beginning at Waupun and extending westerly to Columbia Co. line, Sect. A Sta. 0-Sta. 400, 16,326 cu.yd. earth, 700 cu.yd. loose and 1,450 cu.yd. solid rock excav., 6,387 cu.yd. borrow, etc. Sect. B, Sta. 400-Sta. 782 plus 53, 19,484 cu.yd. earth excav., 12,374 cu.yd. borrow, 75,767 sq.yd. 18 ft. concrete surfacing, etc.; Horicon-Juneau Water Town Rd., State Trunk Highway 26, Sect. A beginning at concrete pavement of State Trunk Highway 118 north of Juneau and extending southerly through Juneau toward Oak Grove to Sta. 261 plus 00, also beginning at junction of State Trunk Highways 118 and 26 in this city and extending easterly on State Trunk Highway 118, to 1922 concrete pavement, 34,316 cu.yd. earth excav., 1,530 cu.yd. borrow, 86,206 sq.yd. concrete pavement, etc. Sect. B, 4.92 mi. beginning at Sta. 261 plus 00 about ¼ mi. east of Oak Grove and extending southerly to intersection with State Trunk Highway 29 near northwest corner of Sect. 28 in town of Clyman, 18,221 cu.yd. earth excav., 52,452 sq.yd. 18 ft. concrete pavement, etc.; 4.15 mi. Juneau-Watertown Rd., State Trunk Highway 26, beginning at north city limits of Watertown and extending northerly to end of present concrete, 19,923 cu.yd. earth excav., 629 cu.yd. borrow, etc.; 3.85 mi. Watertown-Lebanon Rd., beginning in city of Watertown and extending northeasterly, this job rough graded with exception of 0.35 mi. in city limits of Watertown, 1,200 cu.yd. fine grading, 1,500 cu.yd. earth excav., etc.; 1.41 mi. Columbus-Beaver Dam Rd., State Trunk Highway 31, beginning at railroad tracks extending northeasterly into city of Beaver Dam, 3,356 cu. yd. earth excav., 14,965 sq.yd. 18 ft. concrete, etc. Cement to be furnished by contractor.

Wis., Port Washington — March 12, by Ozaukee Co. Road and Bridge Com., Court House, grading and surfacing Port Washington-Cedar Grove Rd., commencing at Belguin-Lake Church Rd. and extending 3 mi. south, 11,790 cu.yd. earth excav., 31,300 sq.yd. 18 ft. concrete surfacing, etc. W. C. Bartelt, co. engr.

Wis., Waukesha — March 14, by Waukesha Co. Road and Bridge Com., Court House, grading and surfacing Oconomowoc-Monterey Co. Line Rd., commencing at Dodge Co. line on State Trunk Highway 67 and extending 5.65 mi. in southerly direction to Oconomowoc, 24,000 cu.yd. earth excav., 57,100 sq.yd. 18 ft. concrete surfacing, 4,518 sq.yd. full width concrete surfacing. C. J. Hahn, co. highway comr.

Ia., Gowrie—March 12 (change of date) by T. E. Johnson, clk., 20,500 yd. gravel, 8,000 lin.ft. curb and gutter. $30,000. Bruce & Grupe, 408 Finance Bldg., Omaha, Neb., engrs. Noted Feb. 15.

Minn., Duluth — March 17, by J. A. Phillips, city comr., paving 3,725 ft. Gladstone Ave. from 40th Ave. E. to Superior St., 20 ft., 8,230 sq.yd. concrete, 7,000 cu. yd. earth and 10 cu.yd. rock excav. $46,099. E. K. Coe, city engr.

Minn., Fairmont—March 14, by W. M. Canfield, aud. Martin Co., 6.5 mi. Job 2302, State Rd. 8, 63,000 cu.yd. excav., 80 cu.yd. rein.-con. culverts; Job 2304, State Rd. 6, 43,000 cu.yd. excav., 36 cu.yd. rein.-con. culverts. $25,000. C. N. Krosch, Fairmount, engr.

Minn., Granite Falls—March 20, by G. H. Wilson, aud. Yellow Medicine Co., Job 2301, State Rd. 9, 97,000 cu.yd. earth and 3,000 cu.yd. loose rock excav., 160,000 cu. yd. overhaul; Job 2302, State Rd. 9, 15,000 cu.yd. earth excav., 24,000 cu.yd. overhaul. $25,000. F. Van Krevelen, Granite Falls, engr.

Minn., Preston—March 21, by F. J. Ibach, aud. Fillmore Co., 8 mi. Job 2301, State Rd. 9, 97,000 cu.yd. earth, 17,000 loose rock and 4,000 cu.yd. solid rock excav., 160,000 cu.yd. overhaul, 400 cu.yd. rein.-con. culverts and abutments, portable culverts; 3 mi. Job 2302, State Rd. 5, 25,000 cu.yd. earth excav., 380 cu.yd. loose and 380 cu.yd. solid rock excav., 12,000 cu.yd. overhaul, 150 cu.yd. rein.-con. culverts, portable culverts; 1.5 mi. Job 2303, State Rd. 10, 17,000 cu.yd. earth and 2,000 cu.yd. loose rock excav., 30,000 cu.yd. overhaul, portable culverts; 2 mi. Job 2304, State Rd. 11, 24,000 cu.yd. earth excav., 5,000 cu.yd. loose and 1,600 cu.yd. solid rock excav., 28,000 cu.yd. overhaul, 90 cu.yd. rein.-con. culverts, portable culverts. $62,000. W. Dunbar, Preston, engr.

Minn., St. James—March 14, by A. G. Countryman, aud. Watonwan Co., Job 2301, State Rd. 12, 67,488 cu.yd. excav., haul and place 914 lin.ft. 12-36 in. corrugated metal culverts, etc., Job 2303, State Rd. 4, 29,536 cu.yd. excav., 50,818 cu.yd. overhaul, 52 lin.ft. 12 in. corrugated metal culverts, etc. $25,000. T. J. Buhl, St. James, engr.

Minn., Worthington—March 22, by C. J. Kall, aud. Nobles Co., 4 mi. Job 2304, State Rd. 11, 22,411 cu.yd. excav., 20 cu.yd. loose rock excav., 17,190 sta.yd. overhaul, corrugated metal and sectional concrete culverts; 7.5 mi. Job 2305, State Rd. 4, 48,505 cu.yd. earth and 50 cu.yd. loose rock excav., 58,390 sta. yd. overhaul, corrugated metal, sectional concrete and monolithic culverts; 6.5 mi. Job 2306, State Rd. 3, 43,218 cu.yd. earth and 100 cu.yd. loose rock excav., 49,642 sta.yd. overhaul, corrugated metal, sectional concrete and monolithic culverts; 6.5 mi. Job 2307, State Rd. 8, 34,520 cu.yd. earth and 249 cu.yd. loose rock excav., 26,480 sta.yd. overhaul, corrugated metal and sectional concrete culverts; 6 mi. Job 2310, State Rd. 9, 35,866 cu.yd. earth and 150 cu.yd. loose rock excav., 44,620 sta. yd. overhaul, corrugated metal, sectional and monolithic culverts. $40,000. N. S. Thayer, Worthington, engr.

Kan., Holton—April 4, by Comrs. Jackson Co., earth road and bridges on 8.797 mi. Holton to Mayette Rd., Federal Aid Project 149, A, B, 29½ ft., 38,400 cu.yd. earth excav., $50,000. P. Wright, co. engr. Noted Feb. 15.

Kan., Independence—March 21, by Comrs. Montgomery Co., paving 5.4 mi. Federal Aid Project 121, Sect. B, 18 ft., 57,244 sq. yd. bituminous, 24,000 cu.yd. earth and 1,000 cu.yd. rock excav. $115,000. H. K. Hibbard, co. engr.

Kan., Pittsburgh—March 15, by L. D. Cornelius, engr., Pittsburgh, paving 11 blocks with brick on 5 in. concrete. Noted Feb. 8.

Kan., Topeka — April 5, by Comrs. Shawnee Co. 6.465 mi. Dover Rd., Federal Aid Project 141, Sects. A and B, 18 ft., 15,450 lin.ft. concrete curb and gutter, 35,708 cu.yd. earth excav., 68,923 sq.yd. concrete. $270,000. R. H. Pennartz, co. engr.

Neb., Omaha—March 13, by City Clerk, paving and curbing Dist. 1381, Dupont St. from 29th to 30th Sts., Dist. 2060, Camden Ave. from 27th to 30th Sts., Dist. 2149, 23rd St. from O to Q Sts., Dist. 2164, Valley St. from 24th to 25th Sts., Dist. 2187, 12th St. from Abor to Frederick Sts., Dist. 2210, 31st Ave. from Belvedere Blvd. to Ida St., Dist. 2229, Miami St. from alley west of 49th to 50th Sts., Dist. 2253, Mayberry St. from 55th to 57th Sts., Dist. 2307, Yale Place Dist. portions of Patrick and 33rd Aves., Burdette, Grant, 34th and Erskine Sts., Dist. 2316, McKinley St. from 30th St. west to city limits, Dist. 2317, Dodge St. from Saddle Creek Rd. to 46th St., Dist. 2318, 52nd St. from Nicholas St. to Military Ave.; paving Dist. 2078, Miami St. from 56th to 60th Sts.; surfacing Dist. 2279, 27th St. from N to L Sts., Dist. 2280, 33rd St. from Martha to Center Sts., Dist. 2281, 34th St. from Martha to Center Sts., Dist. 2282, Castelar St. from 13th to 15th Sts., Dist. 2284, Frances St. from 32nd Ave. to 34th St., Dist. 2289, M St. from 27th St. west to Union Pacific R.R. right of way, Dist. 2290, Park Ave. from Farnam St. to Dewey Ave., Dist. 2306, Vinton St. from 20th to 24th Sts.; repaving Dist. 2301, 20th St. from Douglas to Howard Sts., Dist. 2319, 24th St. from Lake to Spaulding Sts. Bids on vitr. brick, granite block, wood block, asphalt and concrete. H. Beal, city engr.

S. D., Sioux Falls—March 20, for 39,000 sq.yd. portland cement concrete, rein.-con., bituminous concrete or sheet asphalt. S. B. Howe, city engr.

Mo., St. Louis—March 27, by Bd. Pub. Serv., City Hall, concrete curbing and guttering and paving 962 ft. Washington Blvd. from Laurel to DeGiverville Aves., 21 ft., 2,295 sq.yd. warrenite bitulithic or refined asphalt, $6,440; 1,768 ft. Westminster Pl. from DeBaliviere to Hamilton Sts., 22 ft., 4,677 sq.yd. warrenite bitulithic or refined asphalt, $13,500; 1,170 ft. McPherson Ave. from DeBaliviere to Laurel Sts., 25 ft., 3,275 sq.yd. warrenite bitulithic or refined asphalt, $9,100; 1,484 ft. Shaw Ave. from Grand Blvd. to 39th St., 42 ft., 6,826 sq.yd. warrenite bitulithic or refined asphalt on concrete over Telford, $28,400; 1,851 ft. Leonard Ave. from Morgan to Easton Sts., 36 ft., 7,975 sq.yd. warrenite bitulithic or refined asphalt, $19,400; 266 ft. Brannon Ave. from Sutherland to Bancroft Sts., 36 ft., 945 sq.yd. warrenite bitulithic, $4,600; 524.54 ft. Neosho St. from Kingshighway westwardly, 26 ft., 1,620 sq.yd. warrenite bitulithic, 385 cu.yd. grading, $7,500; 1,196 ft. Kingsbury Pl. from point 30 ft. east of Laurel St. eastwardly 30 ft., 2,640 sq.yd. warrenite bitulithic, $6,050; 2,751 ft. Page Blvd. from Kingshighway to Union St., 60 ft., 13,585 sq.yd. warrenite bitulithic, $30,800; 1,249 ft. Wilmington Ave. from Colorado St. to Grand-Kingshighway, 26 ft., 1,600 cu.yd. grading, 3,860 sq.yd. vitr. brick on 6 in. concrete, etc., $21,350; 749 ft. Glasgow Ave. from intersection of Kossuth and 25th Sts. to its intersection with Penrose and 22nd Sts., 15 ft., 1,275 sq.yd. vitr. brick on 5 in. concrete, 765 cu.yd. grading, $8,000; 536 ft. Blase Ave. from Bway. easterly to western line Henry W. Kuhs subdivision, 26 ft., 1,585 sq.yd. 8 in. rein.-con., 1,035 cu.yd. grading, $6,900. W. W. Horner, 300 City Hall, engr. Noted Oct. 26 and Jan. 11.

Arkansas—March 12, by Comrs. Little Rock-Hot Springs Hy. Dist. at office of Arkansas State Hy. Comn., Little Rock, paving 42 mi. Little Rock-Hot Springs Highway from city limits of Hot Springs to Saline-Pulaski Co. line, 14 and 18 ft., concrete or asphalt. Will be let in 7 contracts approximately 6 mi. in each. A. M. Lund, 527 Southern Trust Bldg., Little Rock, engr.

Tex., Clarksville—March 16, by G. Morrison, judge Red River Co., grading and gravel surfacing 7.5 mi. State Highway 5 in Detroit Rd. Dist., 12 ft., 812 cu.yd. concrete, 43,126 cu.yd. roadway excav., 45,449 cu.yd. borrow, 1,948 sq. yd. concrete pavement, 85,253 lb. reinforcing. $103,047. J. B. Reiman, co. engr.

Tex., Corpus Christi—March 13, by H. R. Sutherland, judge Nueces Co., surfacing road already graded with 1 in. cold natural rock asphalt topping 10.97 mi. Corpus Christi-Robstown Highway, Federal Aid Project 341, 18 ft., 115,808 sq.yd. bituminous macadam, 20,016 cu.yd. gravel, 16,086 cu.yd. shell, $180,797; 11.71 mi. State Highway 12, from Robstown to Bishop, Federal Aid Project 342, 18 ft., 165.9 cu.yd. concrete, 123,617 sq.yd. bituminous macadam, 21,367 cu.yd. gravel, 17,170 cu.yd. shell, 9,846 lb. reinforcing, $213,800. C. E. Cocke, co. engr.

Oklahoma—March 14, by F. G. Simmons, state highway engr., Oklahoma City, gravel surfacing 14.869 mi. road from Ravia to county line, Federal Aid Project 68, Johnson Co., 54,351 lb. reinforcing, 12,943 cu.yd. borrow, 78,482 cu.yd. earth and 1,700 cu. yd. rock excav., 139,666 sq.yd. gravel surfacing, 80,435 yd. overhaul, 2,510 yd. solid rock excav., 908 cu.yd. concrete; 4.052 mi. road between Tishomingo and Ravia, Federal Aid Project 67, Johnson Co., 35,963 cu.yd. earth excav., 8,906 cu.yd. borrow, 26,101 yd. overhaul, 1,485 cu.yd. concrete, 94,000 lb. reinforcing.

Wash., Spokane—March 19, by Comrs. Spokane Co., improving 11 mi. Elk Rd. between Pend Oreille Highway and Elk, 24,500 cu.yd. waterbound macadam, 75,000 cu.yd. earth excav., (gravel), 3,300 cu.yd. loose and 5,300 cu.yd. solid rock excav., 4.8 mi. Valley Chapel-Mt. Hope Rd., 9,300 cu.yd. crushed rock, 42,000 cu.yd. earth and 1,300 cu.yd. loose rock excav. $60,000. H. J. Doolittle, Courthouse, Spokane, engr.

Calif., San Diego—March 19, by A. H. Wright, city clk., improving A and C Sts., 145,883 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous base, etc.; 2nd and A Sts., 119,764 sq.ft. 2 in. asphalt, 1 in. binder, on 4 in. portland cement concrete, etc. F. A. Rhodes, city engr. Noted Jan. 25 and Feb. 8.

Ontario—March 21, by W. A. McLean, deputy minister of highways, Toronto, concrete pavement as follows: 2.75 mi. in Crumlin easterly, Contr. 894, 4 mi. from Essex to Madistone, Contr. 895, 2.4 mi. from Preston to Freeport, Contr. 896, 2 mi. in St. Thomas easterly, Contr. 938, mostly 20 ft. wide, $400,000; 4 mi. asphaltic concrete pavement from Hamilton southerly, Contr. 898, 30 ft. wide, $200,000; 3.1 mi. macadam road from Odessa easterly, Contr. 899, $60,000; macadam base course as follows: 3.9 mi. from west limits of Yonge Twp. easterly, Contr. 900, 2.3 mi. from Becketts Bridge to Chambers Corners, Contr. 901, 5.1 mi. from Ashton to Carleton Pl., Contr. 904, 3.8 mi. from point 3 mi. west of Cornwall westerly, Contr. 920, $150,000; grading as follows: 1.8 mi. in Hawkesbury, Contr. 902, 4.1 mi. from Richardson Side Rd. to Townline, Contr. 903, 4 mi. from point 3.3 mi. south of Elgin southerly, Contr. 905, 4 mi. in Kenilworth.

Streets and Roads (Continued)

Contr. 906, 4 mi. Cedar Springs, Contr. 907, 1 mi. from point 3 mi. north of St. Johns northerly, Contr. 909, 4.8 mi. from Arkona south to Sarnia Gravel Road, Contr. 910, 4 mi. from Clinton to Seaforth, Contr. 911, 2.5 mi. from point 2 mi. west of Clifford westerly, Contr. 912, 4.9 mi. from Tillsonburg easterly, Contr. 913, Tooleys Hill, Contr. 879, 2 mi. from Stittsville to Stanleys Corners, Contr. 943, 4 mi. from Elgin Sta. northerly, Contr. 944, 7 mi. from Durham southerly, Contr. 945, 4 mi. in Orford, Contr. 946, 5 mi. in Ekfrid, Contr. 947, 1.4 mi. from point 3 mi. west of Parkhill, Contr. 949, 3.2 mi. from Clinton westerly, Contr. 950, 3 mi. from west limits of Welland Co. easterly on Forks Rd., Contr. 952, 1.8 mi. Proof Line 9th to 11th Con., Contr. 953, 4 mi. Sarnia Gravel Rd. from Akrona Side Rd. westerly, Contr. 844, $400,000; concrete bridge abutments as follows: extension to 2 steel bridges on Stratford-Goderich Rd., Contr. 954, two Walkerton bridges and Mildmay Bridge, Contr. 955, McKenzie Creek on Caledonia Rd., Contr. 957, Boston Creek on Caledonia Rd., Contr. 958, Bloomfield Bridge, Contr. 959, Elginfield Bridge, Contr. 962, $180,000; concrete culverts in King and Whitchurch Twps., Contr. 937, $10,000. Total est. $1,500,000. G. Hogarth, ch. engr.

Ont., Kitchener—March 15, by S. Cassel, clk. Waterloo Co., Court House, 24,373 sq. yd. 7 and 8 in. concrete pavements on Provincial Co. Rd. 109, also 14 ft. rein.-con. slab span near German Mills, on Co. Rd. 12. L. S. Lichty, Wellesley, road supt.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids Feb. 28, granite paving (1) Dumont Ave., asphalt paving (2) Tapscott Pl., grading, curbing and flagging (3) New Utrecht Ave. (4) Parrott Pl., curbing and flagging (5) 66th St., from E. J. Galway, 676 9th Ave., New York City, (1) $1,616; J. D. Norton, 20 Sterling Pl., (1) $1,690; J. Meehan & Son, 74 Cortlandt St., New York, (1) $1,809; Uvalde Asphalt Paving Co., 1 Bway., New York, (2) $19,545; Sicilian Asphalt Paving Co., 41 Park Row, New York, (2) $20,190; Borough Asphalt Co., 1301 Metropolitan Ave., (2) $20,322; Castle Bros., Inc., Johnson Pl., (3) $9,523; F. Persicano, 350 Fulton St., (3) $9,798 (4) $4,852 (5) $1,679; G. M. Mandatto, 129 29th St., (3) $10,393; L. Mangeri, 190 31st St., (4) $3,707 (5) $1,815. Noted Feb. 22.

Pa., Phila.—F. H. Caven, dir. pub. wks., opened bids Feb. 20, paving (1) Robinson and Broad Sts. (2) Almond St. (3) Barbara, Bermuda, Howard, Marvine and Oxford Sts. (4) Sansom St. (5) 15th St. (6) various streets in Dist. 1 (7) streets in Dist. 3 (8) streets in Dists. 5, 6 and 7, from Barber Asphalt Paving Co., Land Title Bldg., (1) $25,687 (2) $5,654 (3) $26,569; Eastern Paving Co., Colonial Trust Bldg., (1) $27,532 (2) $5,950 (3) $27,875; Mack Paving Co., Nicetown Lane and Chelten Ave., (2) $5,080; Acchione & Canuso, 804 South 12th St., (4) $2,533; Centrola & Mezzola, Lincoln Blvd., (4) $2,857; J. Mehan & Sons, 914 Dauphin St., (5) $32,493; Fish-Rutherford Co., Real Estate Trust Bldg., (5) $35,977; United Paving Co., Colonial Trust Bldg., (5) $37,563 (6) $22,164 (7) $13,200 (8) $26,813; J. J. McHugh, South Penn Sq., (6) $25,175; Ryan Constr. Co., Real Estate Trust Bldg., (6) $25,398 (7) $11,512 (8) $28,152; F. Borrelli, 6413 Callowhill St., (7) $14,670 (8) $27,176.

Pa., Phila.—Opened bids Feb. 24, paving (1) 56th St. from Summer to Vodges Sts. and Price St. from Chew to MacMahon Sts., incl. 898 sq.yd. vitr. brick, 6,366 sq.yd. asphalt, 1,087 cu.yd. concrete base, (2) Callowhill St. from 15th St. to Parkway, incl. 1,030 sq.yd. vitr. brick, 544 sq.yd. granite block, 8,830 sq.yd. asphalt, 1,842 cu.yd. concrete base, (3) repaving with granite block 16th St. from Locust to Arch Sts., (4) 13th St. from South to Walnut Sts., 12,352 sq. yd. granite block, 2,065 cu.yd. concrete base, (5) pavements on several streets incl. 952 sq.yd. vitr. brick, 7,200 sq.yd. asphalt, 1,175 cu.yd. concrete base, from Barber Asphalt Paving Co., Land Title Bldg., (1) $25,109 (2) $39,223 (5) $28,454; Eastern Paving Co., Colonial Trust Bldg., (1) $25,877 (2) $40,174 (5) $28,788; Union Paving Co., 37th and Spruce Sts., (2) $29,548; Acchione & Canuso, 804 South 12th St., (3) $20,279; Laughlin & Flood, Real Estate Trust Bldg., (3) $21,224; Lombardi & Co., Lincoln Bldg., (3) $25,623; Centroni & Mezzola, Lincoln Bldg., (4) $42,610; J. Mehan & Sons, 914 West Dauphin St., (4) $43,367; Fish-Rutherford Co., Inc., Real Estate Trust Bldg., (4) $45,788.

Pa., Phila.—Opened bids Feb. 27, repaving (1) 15th St. from South to Spruce Sts., incl. 7,600 sq.yd. granite block, 1,700 cu.yd. concrete base, (2) 48th St. from Walnut to Larchwood Sts., 678 sq.yd. vitr. brick, 8,167 sq.yd. asphalt, 1,474 cu.yd. concrete base, (3) Schiller St., from Thompson to Salmon Sts., 179 sq.yd. vitr. brick, 1,099 sq.yd. asphalt, 208 cu.yd. concrete base, from J. Mehan & Sons, 715 West Dauphin St., (1) $37,043; Acchione & Canuso, 815 South 12th St., (1) $42,094; Fish-Rutherford Co., Real Estate Trust Bldg., (1) $43,075; Union Paving Co., 37th and Spruce Sts., (2) $26,442 (3) $4,236; Eastern Paving Co., Colonial Trust Bldg., (2) $27,578 (3) $4,476; Mack Paving Co., Nicetown Lane, (3) $4,321.

Pa., Wilkes-Barre—F. H. Gates, city clk., resurfacing streets during 1923, from C F. Goeringer Constr. Co., 51 South Washington St., $2.80 per sq.yd. for asphalt, $18 per ton asphalt binder, $2 per sq.yd. for 6 in. concrete base; Neumeyer Bros., Bethlehem, $3 per sq.yd. for asphalt, $17 per cu.yd. for concrete binder, $2 per sq. yd. for concrete base.

D. C., Wash.—Dist. Comrs., 509 Dist. Bldg., opened bids March 1, grading, improving and paving streets, roads and avenues, (1) 33,000 cu.yd. grading for street paving (not incl. stone salvaged and paid for as such) (2) separating and salvaging 11,000 cu.yd. macadam stone (3) constructing 70,000 lin.ft. 8 in. cement curb (4) constructing 51,400 sq.yd. 6 in. cement roadway (5) 88,700 cu.yd. 7 in. cement roadway (6) constructing additional 80,700 cu.yd. concrete, from Cranford Co., 2426 E St., N. W., (1) $0.95 per cu.yd. (2) $1.20 (3) $0.69 (4) $1.81 (5) $2.02 (6) $8.90, total $371,514; W. F. Brenizer Co., 101 New York Ave., N. E., (1) $0.75 (2) $1.25 (3) $0.75 (4) $1.99 (5) $2.39 (6) $9, $411,542; McGuire & Rolfe, Virginia Ry. and Power Bldg., Richmond, Va., (1) $0.75 (2) $0.75 (3) $0.55 (4) $2.27 (5) $2.56 (6) $12, $424,934. Noted Feb. 15.

Md., Baltimore—Paving Comn 214 East Lexington St., opened bids grading, curbing and paving with sheet asphalt, 22,365 sq.yd. various streets, Contr. 230 OANA, from Amer. Paving Co., Montebello St., $78,559; Baltimore Asphalt Block and Tile Co., 1320 North Monroe St., $87,350; P. Flanigan & Son, Harford Rd. and Baltimore & Ohio R.R., $87,777.

Virginia—State Hy. Dept., Richmond, opened bids Feb. 14, soil road on (1) 1 mi. road from Barboursville to Green Co. line, Project F 135 C, Orange Co. (2) 2.7 mi. road from Pearsburg to Ripplemead, Project F 107, (3) 7.5 mi. road from Brookneal to Volens, Project F 141 B; bituminous macadam on (4) 2 mi. road, Project F 136 A, Green Co. (5) 11.07 mi. road, Project F 192 C; concrete on (6) 6.13 mi. road from Clarksville to North Carolina line, Project F 178; (7) 5 mi. road from Big Island to Snowden, Project F 48 C, Bedford Co., (8) various roads in Clarksville, Project S 158, Mecklinburg Co.; (9) 3 concrete bridges over Hunting, Battery and Peters Creeks, Bedford Co., (10) 143 ft. iron bridge over Sandy River, Project F 186 B, Pittsylvania Co., (11) 77 ft. bridge over Spottsylvania Power Company's Canal at Falmouth, from L. R. Colbert, Fredericksburg, (1) $10,646 (4) $60,519; H. B. Baker, Columbus, (1) $11,266, (4) $65,700; C. S. Luck, Ashland, (1) $11,434, (4) $66,826; Warden Constr. Co., Pulaski, (2) $60,953; J. R. Vaughan, Roanoke, (2) $61,401; W. R. Midkeff, Ivanhoe, (2) $62,043; Battershill & Goode, Virgilina, (3) $49,502; Davis & Carson, Cumberland, (3) $50,175, (7) $192,341; Clark & Atkinson, Charlottsville, (3) $50,294; H. A. McDonald, Lexington, (5) $223,901; Ellis & Brook, Staunton, (5) $238,778; Pace Constr. Co., Roanoke, (5) $266,585, (7) $196,125, (9) $13,498; Southern Constr. Corp., Petersburg, (6) $214,016; Allport Constr. Co., Mutual Bldg., Richmond, (6) $219,329, (8) $51,369, (10) $10,335; Overstreet & Nance, Bedford, (6) $221,604, (8) $52,890, (9) $14,835; W. T. Jones, (7) $196,865; Tinsley Constr. Co., Roanoke, (8) $49,937; Ballard & Herring, Bedford, (9) $14,715; Roanoke Iron Wks., Roanoke, (10) $8,569; Major Constr. Co., (11) $20,413. Noted Jan. 25.

Louisiana — State Hy. Comn., Reymond Bldg., Baton Rouge, opened bids Feb. 13, grading and shell surfacing 6½ mi. Federal Aid Project 106 on New Orleans-Mississippi Highway, from Slidell to West Rigolets, from Hampton-Reynolds, Maison Blanche Bldg., New Orleans, $121,299; L. A. Loustalot, Franklin, $154,182. Noted Jan. 25.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, opened bids Feb. 16, constructing 7.75 mi. Benton-Ferry Rd., from Moore Paving Co., Amite, $53,325, Barta & Multersbough, Lake Charles, $63,100, Burke & Jones, New Orleans, (street address not available) $65,137; 6.36 mi. Minden-Arcadia Highway, from Spencer Bros., Minden, $65,913, Lawrence, Nixon & Philips, Jackson, Miss., $66,913, J. C. Reeves, Pearson, $77,414.

Wis., West Bend—Washington Co. concrete surfacing, etc., 3.4 mi. Milwaukee-Germantown Rd., from Monad Constr. Co., 122 West Main St., Wauwatosa, $73,279; F. Doherty Co., 4419 North Ave., Milwaukee, $75,618. Noted Feb. 22.

Wis., Wisconsin Rapids—Paving various streets, 22,400 sq.yd. (a) plain concrete, (b) rein.-con., from F. Bossert, Wisconsin Rapids, (a) $2.27, (b) $2.41; Rood Constr. Co., Wisconsin Rapids, (a) $2.40, (b) $2.60; 13,880 lin.ft. combined concrete curb and gutter, from J. Peterson, Wisconsin Rapids. Noted Feb. 15.

Tex., Del Rio—Val Verde Co., grading, gravel surfacing, etc., 11.82 mi. State Highway 12, Del Rio-Comstock Rd., 16 ft., 956.2 cu.yd. concrete, 10,463 cu.yd. roadway, 52,288 cu.yd. borrow, 955 cu.yd. loose and 5,028 cu.yd. solid rock excav., 42,109 lb. reinforcing, 24,180 cu.yd. gravel, from Rice & Bates, Austin (street address not available), $54,803; McCall-Moore Eng. Co., Amicable Bldg., Waco, $57,022; C. M. Kelly & Co., 503 Barrett Pl., San Antonio, $62,003. Engrs. est. $78,950.

Tex., Henderson—Rusk Co. gravel and clay surfacing 14.93 mi. State Highway 26; 12 ft., from Standifer & Wood, Royse City, $32,472; D. L. Thornton, Nacogdoches, $33,312; C. Arnold and T. J. Walt, Henderson, $33,733; 9,516 cu.yd. clay and 26,261 cu.yd. gravel to be furnished by county. Engrs. est. $49,035. Noted Jan. 25.

Tex., Houston—Paving with Uvalde rock asphalt Pecore St. from North Main St. to Houston Heights, from S. Shamabugh, Larendon Bldg., $59,724; Uvalde Rock Asphalt Co., Houston, (street address not available), $59,725. Engrs. est. $60,000.

Tex., Liberty—Liberty Co. grading, etc., 34.54 mi. State Highway 3, Federal Aid Project 352, 18-30 ft., from Howard Kenyon Dredging Co., 3603 McKinney Ave., Houston, $196,500; Smith Bros., 311 Central State Bank Bldg., Dallas, $200,232; J. F. Hamer, Stop Interurban 6, Ft. Worth, $218,590. Noted Feb. 8.

Calif., Los Angeles—Improving Compton Ave. between Vernon Ave. and south city limits, from G. H. Oswald, 366 East 58th St., $80,175; Railroad Ave. between Anaheim St. and city limits, from W. E. Hall, 500 Market St., Riverside, $96,130. Noted Feb. 22.

Calif., San Diego — Common Council opened bids Feb. 26, improving (1) Maple, Nutmeg and Olive Sts., (a) 178,918 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous, (b) 389 lin.ft. cement concrete curb, (c) 1,033 sq.ft. cement concrete sidewalk, (d) 1,128 sq.ft. gutter, (2) Laurel, Curlew, Brant, Union, Kalmia and 3rd Sts., (e) 281,189 sq.ft. 1½ in. asphaltic concrete on 4 in. Cement concrete, (f) 285 lin.ft. cement concrete curb, (g) 2,189 sq.ft. gutter surfacing with 1½ in. asphaltic concrete, from California Constr. Co., 528 Granger Bldg., (1a) $0.163 (1b) $0.72 (1c) $0.22 (1d) $0.06 (2e) $0.2384 (2f) $0.75 (2g) $0.08; Griffith Co., 25 14th St., (1a) $0.169 (1b) $0.72 (1c) $0.23 (1d) $0.10; G. R. Daley, 4430 Boundary St., (1a) $0.17 (1b) $0.65 (1c) $0.22 (1d) $0.70 (2e) $0.2075 (2f) $0.65 (2g) $0.07; Warren Constr. Co., P. O. Box 1082, (1a) $0.175 (1b) $0.70 (1c) $0.21 (1d) 0.11; H. H. Peterson, Loma Portal, (2e) $0.255 (2f) $0.78 (2g) $0.10. Noted Feb. 15.

Calif., San Diego—Improving 8th West St. between N and Imperial Sts., from Griffith Co., 25 14th St., 11,659 sq.ft. 2 in. wearing surface with 1 in. binder course on 5 in. concrete at $0.35 per sq.ft., etc.; Ft. Stockton Dr. and Ampudia St., from G. R. Daley, 4430 Boundary St., 1,037 cu.yd. earth excav. $0.65, 175 cu.yd. earth embankment $0.01, 22,308 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous $0.174 4,490 sq.ft. walks $0.22, 903 ft. curbs $0.65. Noted Jan. 11 and Feb. 8.

Calif., Sanger—Improving portions of (1) 5th, 8th and O Sts., 265,143 sq.ft. grading, 245,993 sq.ft. 1½ in. warrenite bitulithic on asphaltic concrete, 10,150 sq.ft. gutter, 5,646 ft. curb, 894 ft. culverts, (2) portions of L St., etc., 26,860 sq.ft. grading, 26,100 sq.ft. 1½ in. warrenite bitulithic on asphaltic concrete, 750 sq.ft. concrete gutter, from California Constr. Co., Mattel Bldg., Fresno, (1) $70,433 (2) $7,129; J. A. Dowling, Bakersfield, (1) $75,516; Clark & Henery Constr. Co., Ochsner Bldg., Sacramento, (1) $79,062; W. F. Hanrahan, Fresno, (street address not available), (2) $7,648; California Street & Road Impvt. Co., Roosevelt and Divisadero Sts., Fresno, (2) $7,721.

CONTRACTS AWARDED

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., to Spedero & Turriamo, 827 East 217th St., curbing, laying sidewalks and crosswalks on Fieldston Rd. $2,838, grading, setting curb and laying sidewalks on Buhre Ave. $12,960, Jarvis Ave. $5,470, Mahan Ave. $15,641; to Gregario & Gabriele, 1129 8th

Streets and Roads (Continued)

Ave., Bogart Ave. $10,647; to P. J. Donovan, 30 Church St., Crosby Ave. $16,661, Hobart Ave. $7,550, Gainsborg Rd. $30,721; to J. F. Cavaluzzo, 1530 Walton Ave., Gleason Ave. $25,065. Noted March 1.

N. J., Spring Lake—Mayor and Council improving East Lake Dr., to J. F. Burke Constr. Co., 309 Park Ave., Plainfield, $104,228. Noted March 1.

Md., Baltimore—Mayor and City Council, repaving with sheet asphalt St. Paul St. from North Ave. to 25th St. and North Ave. from Charles St. to Greenmount Ave., to P. Flanigan & Son, Hartford Rd., along tracks Baltimore & Ohio R.R. Engrs. est. $150,000.

S. C., Kingstree—Williamsburg Co., constructing 12 mi. road, Project 177, to Lawler Cartledge, Pine Apple, Ala., $43,013; bridge on above road to C. E. Storey, Augusta, Ga., $10,853. Noted March 1.

Alabama—State Hy. Comn., Montgomery, grading and surfacing with sand-clay 6.8 mi. road from Midland City to Houston Co. line, Dale Co., to Dale Co., Ozark, $52,700; grading and surfacing with chert and gravel, 20.2 mi. road from Centerville to Woodstock, Bibb Co., to T. C. Goodrich, Albany, $183,000, culverts on above to E. L. Batson, Birmingham, (street address not available), $41,000; grading and surfacing with gravel and sand-clay 20 mi. road from Fullers Cross Roads to Brantley, Crenshaw Co., also bridges and culverts on above to Stanley & Singer, La Fayette, $114,000 and $41,000 respectively. Noted Jan. 25 and Feb. 15.

Miss., Canton—Paving 7 blocks with Kentucky rock asphalt on 6 in. concrete, also 6 x 24 in. curb and gutter, to Lawrance, Nixon & Phillips, Jackson, $44,850; 18 in. storm sewers, to H. R. Covington, Canton.

Tennessee—State Hy. Dept., Nashville, paving, 2.63 mi. Federal Aid Project 5, 16 ft., Greene Co., 23,227 sq.yd. 6 in. stone base course, 24,477 sq.yd. 2½ in. waterbound macadam surface course, etc., to J. E. French, Greenville, $29,400. Noted Feb. 1.

O., Canton—Stark Co. grading and paving 1.74 mi. Sect. B Canton-Sherman-Church Rd., 16 ft., monolithic brick, to Urban Bros., Massillon, $65,683. Engrs. est. $70,000. Noted Feb. 22.

O., Cincinnati — Hamilton Co. grading and bituminous macadam paving 9,800 ft. Newton Rd., 16 ft., and 15,840 ft. Hopewell Rd., 16 ft., to A. C. Pickelheimer, 3555 Mooney Ave., $31,223 and $32,730 respectively. Noted March 1.

O., Columbus—Grading, curbing, laying mains and sewer connections and paving 2 mi. Parsons Ave., 44 ft., asphalt, to Franklin Asphalt Paving Co., 209 South High St., $151,330; 2,021 ft. Belmont Ave., 24 ft., asphalt, to B. F. Patterson, 1214 Neil Ave., $30,025. Noted Feb. 8.

Ind., Evansville — Venderburgh Co., crushed stone surfacing 16,400 ft. Green River Rd., 16 ft., to O. Edmond, Evansville, $25,795. Engrs. est. $27,706. Noted Feb. 22.

Ind., Indianapolis—Paving 2.8 mi. English Avenue Rd., 20 ft., 26,895 sq.yd. asphalt on concrete, 10,200 cu.yd. earth excav., 3,300 cu.yd. fill, 199 cu.yd. concrete for culvert, etc., to Marion County Constr. Co., 1600 South West St., $73,400. Engrs. est. $83,638. Noted March 1.

Ind., Peru—Paving 5,300 ft. 5th St., 20,476 sq.yd. brick on concrete, to C. P. Burke, Peru, $72,829. Engrs. est. $96,751. Noted Feb. 22.

Ind., Princeton — Gibson Co., crushed stone surfacing 5 mi. H. W. Barrett Rd., and 40,112 ft. Graper Rd., both 16 ft., to F. H. Hull, Tipton, $40,873 and $61,469 respectively. Engrs. est. $49,174 and $73,893 respectively. Noted Feb. 22.

Michigan—F. F. Rogers, state highway comr., at office Machinac Co. Rd. Comrs., St. Ignace, grading and surfacing 7.804 mi. Federal Aid Project 80, Sects. C and D, Machinac Co., to Regan-Baker Co., Kewadin, incl. 81.4 cu.yd. 1:2:4 concrete $27.25, 19 cu.yd. 1:3:6, concrete $25, 82,314 sq.yd. gravel surface, Class B $0.675, total $82,327; 5.254 mi. Federal Aid Project 80, Sect. G, Machinac Co., to S. J. Groves & Sons Co., 120 Manhattan Bldg., Duluth, Minn., incl. 5 acres clearing $100, 14,782 cu.yd. excav. $0.54, 34.7 cu.yd. 1:2:4 concrete $25, 30 sq.yd. 1:3:6 concrete $23, 55,465 sq.yd. gravel surface Class B $0.68, total $52,360.

Wis., New London—Will pave Cemetery Rd. from Wyman to Jennings Sts. and from Jennings St. to city limits, 10,000 sq.yd. rein.-con., by day labor. Former bids rejected. H. R. Albert, Court House, Green Bay, engr. Noted Feb. 15.

Wis., Racine—Racine Co. State Road and Bridge Com. grading and paving River Road, to J. R. Griffith, 526 Wisconsin St., 19,602 cu.yd. earth excav. $0.79, 50 cu.yd. loose rock excav. $1.75, 43,160 sq.yd. concrete surfacing $1.39, 219 cu.yd. concrete for culverts $23, etc., total $91,015. Noted Feb. 15.

Wis., Waukesha — Waukesha Co. Road and Bridge Comn., concrete surfacing, etc., Templeton-Menomonee Falls Rd., to Froeming Bros., 1326 Humboldt Ave., Milwaukee, $130,033; State Trunk Highway 83, to McGucken Constr. Co., 92 Mason St., Milwaukee, $58,242. Noted Feb. 15.

Minn., Duluth—To A. Bodin & Sons, 3531 East 4th St., paving 2,330 ft. Glendale St. from 49th Ave. E. to 54th Ave. E., $33,268, Engrs. est. $39,119, 2,330 ft. Regent St. from 40th Ave. E to 45th Ave. E., $24,835, Engrs. est. $27,293, 2,330 ft. Tioga St. from 49th Ave. E. to 54th Ave. E., $29,086. Engrs. est. $30,923. Noted Feb. 22.

Minn., Waseca—Waseca Co., 11.6 mi. Job 2301, State Rd. 4, 70,500 cu.yd. excav., 750 lin.ft. sectional concrete culverts, 770 lin. ft. corrugated metal culverts, to Roach Co., Mankato, $30,426; 7 mi. Job 2305, State Rd. 13, 67,200 cu.yd. excav., 150 ft. corrugated metal culverts, 935 ft. sectional concrete culverts, to C. Jorgenson, Stewart, $22,835. Noted Jan. 25.

Kan., Fredonia—Paving 46 blocks, gravel macadam, concrete curb and gutter, to J. L. Shinn, Independence, $100,989. Noted Feb. 15.

Kan., Girard — Crawford Co. paving 1.979 mi. Walnut Englevale Branch, 18 ft., 6-8 in. concrete, to Du Bois & Co., Pittsburgh, 2,370 cu.yd. earth excav. $0.70 per yd., 21,016 sq.yd. 1 course concrete $2.54, etc., total $56,745; 4.037 mi. Radley Ringo Rd., 16 ft., bituminous macadam to Independent Constr. Co., Pittsburg, 15,330 cu. yd. earth excav. $0.55, 38,342 sq.yd. bituminous macadam $1.35, 95,855 gal. bitumen $0.16 per gal., etc., total, $86,554; 0.942 mi. Arcadia Branch, 18 ft., 6-8 in. concrete, to Ziegler & Dalton, Junction City, 2,100 cu.yd. earth excav. $0.70, 10,322 sq.yd. 1 course concrete $2.54, etc., total $30,149. Noted Dec. 28.

Kan., Oswego—Labette Co. will gravel 12.896 mi. Federal Aid Project 2-D, 16 ft., by day labor. Former bids rejected. H. K. Scheidler, Oswego, engr. Noted Jan. 1.

Missouri—State Hy. Dept., Jefferson City, 4.871 mi. State Project Route 1, Sect. 106, Newton Co., to J. P. Wolfenbarger, Neosho, $52,525; 0.284 mi. State Project Route 32, Sect. 4, Dent Co., to Illinois Steel Bridge Co., Laclede Gas Bldg., St. Louis, $19,026. Noted Dec. 28 and Feb. 22.

Mo., Joplin—Paving Main St. from 20th to 32nd Sts., 9,360 sq.yd. concrete, to V. E. Koch, 419 Joplin St., $25,740.

Tex., Commerce — Paving, curbing and guttering 30,000 sq.yd. Commerce, Washington, Monroe, Caddo, Bonham and Park Sts., Uvalde rock asphalt, to Genl. Constr. Co., Cotton Exch. Bldg., Ft. Worth, $120,700. Noted March.

Tex., Denton—Paving 1.2 mi. West Oak St., 26,934 sq.yd. 2 in. rock asphalt on macadam, to W. M. Jagoe Co., Denton, $55,740. Engrs. est. $60,000.

Calif., Los Angeles—Improving Larchmont St. between Melrose and Beverly Sts., to Tryon & Brian, Tajo Bldg., $175,696. Noted March 1.

Calif., San Diego—Common Council improving Imperial Ave., Clinton St., etc., to J. Engebretsen, McNeece Bldg., $56,369. Noted Feb. 15.

Calif., San Diego—Grading, curbing, guttering and laying sidewalks on 37th, 39th, 4th Sts., et al., to J. Engebretsen, McNeece Bldg., $56,380. Noted Feb. 22.

Calif., San Diego — Improving Ivy St. between Balboa Park and India St., to California Constr. Co., 528 Granger Bldg., $27,804. Noted Jan. 25.

Industrial Works

PROPOSED WORK

R. I., Providence—M. W. Norton, Dorrance St. Garage, soon lets contract 3 story garage addition, brick and steel, plain foundation, Dorrance St. $75,000. W. R. Walker & Son, 49 Weybosset St., archts.

Pa., Pittsburgh—Frank & Seder Co., 5th and Smithfield Sts., having plans prepared by W. E. Snaman, archt., Empire Bldg., 3 story and basement, 88 x 200 ft. warehouse and garage, concrete and brick, 1819-1823 Bluff St. $200,000.

Pa., Quakertown—Krupp Fdry. Co. Inc., Lansdale, plans 1 story, 125 x 200 ft. foundry, here. Engineer and architect not announced.

Pa., Sharon — Woodside Garage, 712 Spearman Ave., plans garage on Spearman Ave. $40,000. Engineer and architect not announced.

Pa., Uniontown—Uniontown Automobile Co. having plans prepared by H. W. Altman, archt., Fayette Title & Trust Bldg., 2 story, 41 x 80 ft. brick and stone garage. $40,000.

W. Va., Huntington—Motor Sales Co., 1611-6th Ave., soon takes bids 6 story, 99 x 109 ft., brick, tile, steel and terra cotta garage, 6th Ave. and 12th St. $200,000. Meanor & Handloser, Robson-Prichard Bldg., archts. Noted March 1.

W. Va., Parkersburg—Kesterson Ice Co., plans ice manufacturing plant $50,000. Engineer and architect not selected.

W. Va., Wheeling—U. S. Corrugated Box Co., 1315 Martindale Ave., Indianapolis, Ind., having plans prepared by C. E. Bacon, archt., 605 Old Fellows Bldg., 2 story, 80 x 200 ft., brick and steel factory, here.

N. C., Salisbury—Swink Mfg. Co., China Grove, plans large cotton mill and development of new town to be named Swink. Town site is located on Souther Ry., 6 mi. south of here, and involves development of 400 acres, power and sewer systems, etc. $2,000,000. W. J. Swink, China Grove, pres. C. A. Cannon, Concord, interested.

Ala., East Thomas (Birmingham P. O.) —St. Louis & San Francisco R. R., St. Louis having plans prepared by R. C. Stephens, archt., c/o owner, and soon takes bids round house, car repair shop, storeroom, power house, machine shop, mill shop, etc; brick and concrete. $500,000.

O., Bridgeport—Dillon Bros. Machine Co. having plans prepared 1 story, 50 x 100 ft. machine shop, brick. Private plans.

O., Kent—Erie R. R., 50 Church St., New York City, plans a reclaiming rolling mill, here. $35,000-$40,000. Engineer and architect not selected.

Mich., Detroit—Cadillac Storage Co., c/o Bonnah & Chaffee, archts., 528 Farwell Bldg., having plans prepared 8 story and basement, 100 x 120 ft. rein.-con., brick and steel warehouse, plain foundation, 12th St. and Tuxedo Ave. $350,000. W. P. Bradley, pres.

Mich., Ionia—H. L. Mead, archt., Michigan Trust Bldg., Grand Rapids, takes bids March 15 for 5 story and basement, 112 x 300 ft., brick and timber factory, plain foundation, here, for Ypsilanti Reed Furniture Co., Ionia. $150,000.

Mich., Lansing — Reo Motor Car Co., South Washington St., having plans prepared 3 story, 365 x 577 ft. car storage plant, rein.-con. and brick, plain foundation, Cedar St., $500,000. Private plans.

Mich., Lansing—E. A. Bowd, archt., 127 West Allegan St., takes bids in April, 3 story and basement, 50 x 60 ft. brick and steel plant, Kalamazoo St., for Michigan Butter & Egg Co., 703 East Kalamazoo St. $50,000.

Wis., Delavan—H. C. Hengels, archt., 445 Milwaukee St., Milwaukee, preparing preliminary plans 2 story and basement, 36 x 60 ft. and 20 x 62 ft., brick and concrete garage, plain foundation, Main St. $40,000. Owners name withheld.

Wis., Manitowoc—Globe Steam Laundry, 14th St. and Washington Ave., having plans prepared 2 story, 46 x 120 ft., brick, rein.-con. and steel laundry, plain foundation, Washington Ave. $50,000. Private plans.

Wis., Manitowoc—Wiese Laboratory Furniture Co. plans 2 story, 70 x 80 ft., brick, rein.-con. and steel factory addition, plain foundation. $50,000. F. H. Wiese, pres. Engineer and architect not selected.

Wis., Milaukee — Salvation Army, 43 Juneau Ave., had plans prepared 2 and 3 story and basement, 35 x 75 ft., brick and concrete warehouse, plain foundation. $50,000. Private plans.

Wis., Mount Horeb—Hanley-Reilly Co. plans 2 story, 43 x 80 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation. $40,000. Engineer and architect not selected.

Wis., Oshkosh—Gustavus Milling Co., 506 Minnesota St., plans to rebuild 2 story, 75 x 95 ft., flour mill, etc., rein.-con., brick and steel, plain foundation, recently destroyed by fire. $50,000. H. F. Gustavus, mgr. Engineer and architect not selected.

Wis., Racine—Hamilton-Beach Co., Rapids Dr., having plans prepared by A. L. Flegel, archt., 530 Baker Blk., brick, rein.-con. and steel factory, plain foundation. $219,000.

Wis., Wisconsin Rapids—Blue Seal Iron Co. plans 2 story and basement, brick, rein.-con. and steel, casting shop, plain foundation. $40,000. O. R. Roenius, mgr. Engineer and architect not selected.

Mo., Kansas City — A. F. Seeded, c/o Kansas City Star, having plans prepared by J. Hunt, archt., 30 East Ontario Ave., Chicago, 2 story and basement, 40 x 230 ft., rein.-con., brick and stone factory addition, 17th and Grand Sts. $175,000.

Mo., Springfield—Lipscomb Grain & Seed Co., 540 Wall St., having plans prepared by Southwest Eng. Co., Woodruff Bldg., 2

Industrial Works (Continued)

story, 53 x 100 ft. brick warehouse, 28 x 32 ft. elevator, 136 ft. high, six 76 ft. tanks, 40,000 bu. capacity, 13 grain bins. $150,000.

Mo., St. Louis—St. Louis & San Francisco R. R., St. Louis, having plans prepared by R. C. Stephens, archt., c/o owner, and soon takes bids repair shop, round house, machine shop, power house, mill shop and store room all brick and concrete, Fyler Ave. and railroad right-of-way. $500,000.

Tex., Dallas—Texas Textile Co. having plans prepared by L. W. Robert, Jr., archt., Candler Bldg., Atlanta, Ga., cotton mills, in Lane Field Industrial Dist. $1,000,000. J. P. Burrus, McKinney, pres.

Wash., Tacoma—City Light Dept. plans substation to serve South Tacoma Dist. $45,000.

Calif., Emeryville—Doble Steam Motors Co., 714 Harrison St., San Francisco, plans 2 story, rein.-con., first unit of auto factory, on block bounded by Haven, Harlin and Park Sts. and Atchison, Topeka and Santa Fe R.R. tracks. $350,000. Engineer and architect not selected.

Calif., Roseville—Pacific Fruit Express Co., 65 Market St., San Francisco, having plans prepared rein.-con. and steel additions to ice plant, here. To exceed $150,000. Private plans.

Que., St. Lambert—Liberty Tire & Rubber Co., St. James St., plans factory, St. James St. $50,000. Engineer and architect not announced.

Ont., Dresden—C. Morrison, plans new mill. $50,000. Prices wanted on materials. Private plans.

Ont., Hamilton—Hydro Electric Comn., City Hall, plans electric sub-station, concrete, brick and steel. $100,000. W. Ellis, chn.

Ont., Jackfish—Canadian Pacific Ry., Windsor St., Montreal, Que., plans coaling plant here. J. M. R. Fairbairn, ch. engr.

Ont., Listowel—Perfect Knit Mills Ltd. having plans prepared new factory. $150,000. M. K. Becker, pres.

Ont., Melbourne—Campbell Bros. plans new garage and repair shop. $40,000.

Ont., Peterboro—Brinton Carpet Co., 63 Bay St., Toronto, soon takes bids 3 story and basement, 75 x 300 ft. concrete, brick and steel factory. $175,000. Private plans.

Ont., Stratford—Stratford Frames & Novelties Ltd., had plans prepared and soon takes bids 1 story, 46 x 200 ft. factory. $40,000. R. Gatehouse, Stratford, engr.

Ont., Tillsonburg—Norfolk Shoe Co., plans factory. $50,000. L. F. Greel, supt.

Ont., Toronto—Palmolive Soap Co., 64 Natalie St., plans rein.-con., brick and steel addition to factory, Natalie St. $150,000. Engineer and architect not selected.

BIDS DESIRED

Conn., New Haven—March 20, by C. B. Comstock, archt., 110 West 40th St., New York City, 4 story, 83 x 326 ft. bakery, rein.-con. and brick, plain foundation, Lombard St., here, for Ward Baking Co., Southern Blvd. and St. Marys St., New York City. Noted Nov. 9.

Pa., Bryn Mawr—P. H. Tyre, archt., 1509 Arch St., Phila., taking bids 1 story, 85 x 127½ ft., brick, steel and stone garage, plain foundation, here, for Neel-Cadillac Co., 142 North Broad St., Phila. $50,000.

Pa., Hatboro—Austin Co., engrs., Bulletin Bldg., Phila., taking bids 3 story, 60 x 200 ft. and 2 story, 40 x 150 ft. brick and steel plant, plain foundation, for Roberts & Manders Stove Co., 11th and Washington Sts., Phila.

Pa., Juniata—Pennsylvania R.R., Broad St. Sta., Phila., taking bids 1 story, 340 x 685 ft. machine and erecting shop, brick and steel, near Altoona. $300,000. A. C. Shand, engr., and W. H. Cookman, archt., both at Broad St. Sta., Phila.

Pa., Juniata—March 9, by Pennsylvania R.R., Broad St. Sta., Phila., 3 story and basement, 64 x 400 ft. rein.-con. and brick store house, near Altoona. A. C. Shand, engr., and W. H. Cookman, archt., both at Broad St. Sta., Phila.

Pa., Meadville—Bronze Metal Co. taking bids 1 story factory, corrugated iron siding, steel frame. $40,000. Private plans.

Pa., Pittsburgh—W. E. Snaman, archt., Empire Bldg., taking bids 3 story and basement, 88 x 200 ft. warehouse, 1819-1823 Bluff St., for Frank & Sider, 5th and Smithfield Aves. $200,000.

La., Elton—See "Waterworks."

Ill., Chicago—C. J. Dempsey, 2302 West Madison St., taking bids 2 story, 103 x 125 ft., rein.-con., brick and steel auto service building, Warren and Oakley Sts. $75,000. J. L. McConnell, 111 West Jackson Blvd., engr.

Ill., Oak Park—Weller & Rippel, archts., 40 South Dearborn St., Chicago, taking bids 1 story, 100 x 200 ft., rein.-con., brick and steel garage and sales building, 830-36 North Blvd., here, for Wulpi Garage, 811 West Harrison St. $100,000.

Okla., Weatherford—See "Waterworks."

Ont., Hamilton—March 15, by R. A. Foley, engr. United Gas & Fuel Co., plant and coke ovens. $2,000,000.

BIDS RECEIVED

Pa., Phila.—Director Bureau Highways, City Hall, opened bids Feb. 27, 1 and 2 story 59 x 217 ft. and 58 x 104 ft. stable, blacksmith shop and office, brick and steel, plain foundation, 26th St. and Glenwood Ave., from Bowden Constr. Co., 1935 Chestnut St., $59,900; F. A. Havens Co., 845 North 19th St., $61,300; Mitchell Bros., 2125 Race St., $62,400.

Calif., San Francisco—See "Miscellaneous."

CONTRACTS AWARDED

Me., Houlton—Bangor & Aroostook R. R., Graham Bldg., Bangor, will build 1 story repair shop, brick and timber, at yards, here, by day labor. $40,000. M. W. Burpee, Houlton, engr.

Mass., Lawrence—G. E. Kunhardt Corp., Union St., 1 story, 150 x 240 ft. dyehouse, brick and timber, plain foundation, to L. E. Locke & Sons Co., South Union St. Archts. est. $125,000.

Mass., Taunton—Weir Store Co., 134 West Water St., 4 story, 77 x 114 ft. factory addition, brick and timber, plain foundation, Weir Village, to M. Witherell & Sons, Court St. Archts. est. $40 000.

Conn., Bridgeport—New Haven Dairy Co., 201 Hazel St., New Haven, 3 story and basement, 75 x 85 ft. ice cream plant, rein.-con. and brick, plain and concrete pile foundation, Garden St. and South Ave., here, to T. J. Pardy Constr. Co., 1481 Seaview Ave. Archts. est. $150,000. Noted Feb. 22.

Conn., East Hartford (Hartford P. O.)—Hartford Despatch and Trucking Co., 103 Albany Ave., Hartford, 4 story and basement, 80 x 100 ft. warehouse with garage and machine shop adjoining, rein.-con. and brick, plain foundation, Prospect St., here, to R. G. Bent Co., 183 Ann St., Hartford. Archts. est. $100,000. Former contract rescinded. Noted Dec. 7, under "Hartford."

Conn., Hartford—Bryant & Chapman Co., Woodland St., altering and constructing 2 story and basement, dairy addition, rein.-con. and brick, plain foundation, Woodland St., to Industrial Constr. Co., 721 Main St. Archts. est. $50,000.

N. Y., Buffalo—New York Telephone Co., Telephone Bldg., 3 story, 150 x 200 ft. plant to be used for storage space for trucks and automobiles, store room, shops and offices, Jefferson Ave., to J. W. Cowper Co., Fidelity Bldg., $225,000.

N. Y., Youngstown—Chemical Cold Storage Co. 100 x 100 ft., brick and concrete plant, 31,000 bbl. capacity, to Laur & Mack, Highland and College Aves., Niagara Falls, who sublet same to M. Van Luven, Creek Rd. Archts. est. $100,000.

Pa., Coudersport—McCabe Furniture Co., 3-story and basement, 80 x 300 ft., brick, steel and stone addition to plant, to Chapman & Graham, 132 Blackstone Ave., Jamestown, N. Y.

Pa., Easton—Binney & Smith Co., Easton, 4 story, 80 x 100 ft. rein.-con. plant and power house, to Brillhart Bros., Bethlehem. Noted Jan. 11.

Pa., Phila.—Bd. Educ., 17th and Chestnut Sts., remodeling and building addition to warehouse and print shop, 2nd and New Sts., to Kober Constr. Co., 34 South 17th St., $107,977. Noted Feb. 15.

Pa., Phila.—Keystone Spinning Mills, 2nd and Turner Sts., 2 story and basement, 60 x 94 ft. rein.-con. and brick warehouse, plain foundation, 2nd and Turner Sts., to R. E. Lamb & Co., 843 North 19th St. Archts. est. $60,000.

Pa., Phila.—J. Boeskel, 516 Vine St., 4 story and basement, 85 x 149 ft., rein.-con. and brick factory, plain foundation, Vine and Randolph Sts., to Cramp & Co., Denckla Bldg., $250,000.

Pa., Warren—Seneca Oil Wks., Inc., South Carver St., addition to plant, South Carver St., to Hughes-Foulkrod Co. Inc., Commonwealth Bldg., Phila. Archts. est. $60,000.

Pa., Warren—Warren Garage Co., (T. T. Moll, owner) will remodel and build additional story to garage, concrete, brick and steel, Pennsylvania Ave., by day labor under supervision of R. T. Rogers, Corry, archt. $40,000. Noted Dec. 7.

Pa., Williamsport—Williamsport Storage Co., 3 story and basement, 50 x 165 ft. rein.-con. warehouse, Franklin St., to Turner Construction Co., 11 Goodell St., Buffalo, N. Y., $90,000.

Del., Edgemoor—Edgemoor Iron Co., 2 story 98 x 369 ft. machine shop, brick and steel, plain foundation, to Barclay White Co., 1713 Sansom St., Phila. Engrs. est. $75,000.

Tenn., Memphis—Memphis Sash & Door Co., 673 South Dudley St., 2 story and basement, storage and office building, cabinet room and work shop, brick, Roland Ave. along tracks Southern R.R., to D. D. Thomas & Son, 463 North Dunlap St., $100,000.

O., Cincinnati—Cincinnati New Orleans & Texas Pacific Ry. Co., Ingalls Bldg., 2 story, 90 x 240 ft., fruit produce exchange, rein.-con., plain foundation, Front and Vine Sts., to Ferro Concrete Constr. Co., 3rd and Elm Sts. Archts. est. $160,000.

O., Cleveland—Amer. Steel & Wire Co., c/o H. L. Schuler, 8140 Jones Rd., 1 story, 39 x 68 ft., plant, steel frame, 650 East 67th St., to Amer. Bridge Co., Guardian Bldg. Archts. est. $42,000.

O., Cleveland—Fisher Bros. Co., 2323 Lakeside Ave., 1 and 2 story, 117 x 120 ft., brick, steel and concrete garage and machine shop, Lakeside Ave. near East 23rd St., to W. Moore Co., 1278 West 4th St. Archts. est. $100,000. Noted Feb. 15.

O., Galion—Galion Iron Wks. & Mfg. Co., 1 story, 110 x 400 ft. machine and electric shop, brick, iron and steel, to Massillon Iron Wks. Co., Canal St., Massillon.

O., Portsmouth—Ohio Stove Co., 100 x 300 ft. foundry and 40 x 40 ft. cupola building, to Austin Co., 16112 Euclid Ave., Cleveland.

O., Youngstown—Truscon Steel Co., will build 1 story, 80 x 400 ft. and 1 story, 80 x 200 ft. additions to plant, Albert St., by day labor. To exceed $40,000. Engineer and architect not announced.

Ind., South Bend—Studebaker Corp., 6 story and part basement, 100 x 820 ft. plant, rein.-con. and brick, Lafayette Blvd., to H. G. Christman Co., 315 Stevens Bldg., Detroit, Mich. Noted Jan. 18.

Mich., Detroit—S. E. Remey, archt., 1140 Griswold St., 2 story, 30 ft. high, 70 x 130 ft. rein.-con. and brick garage, plain foundation, Dix Ave., to W. S. Pocock Co., 815 Hammond Bldg., for Kessler Sales & Service Co., 4434 Dix Ave. $47,000. Noted Sept. 7.

Mich., Detroit—Roehm & Davison, 6450 Mack Ave., 2 story and basement, 120 x 153 ft. rein.-con. plant with depressed tracks, also 153 x 154 ft. steel mill building with 2 crane runaways and depressed tracks, to Everett Winters Co., 751-754 Book Bldg.

Mich., Detroit—Schroeder Paint & Glass Co., Cadillac Sq., 4 story, 125 x 195 ft. rein.-con. and brick warehouse, 12th St., to F. R. Patterson Constr. Co., 2631 Woodward Ave., $300,000. Noted Feb. 2.

Mich., Grand Rapids—Sligh Furniture Co., Logan St. S. W., 7 story, 104 x 132 ft. addition to factory, Logan St., to Owen-Ames-Kimball Co., 42 Pearl St., cost plus basis.

Mich., Grand Rapids—A. McColl, archt., Michigan Trust Bldg., 5 story and basement, 50 x 100 ft. brick and timber addition to factory, plain foundation, Monroe St., to Mastenbrook & Grove, Shephard Bldg., for Mueller Furniture Co., Grand Rapids, $32,450. Noted Feb. 1.

Ill., Chicago—Graham, Anderson, Probst & White, archts., 80 East Jackson Blvd., first unit power plant, Crawford Ave., to G. A. Fuller Co., 140 South Dearborn St., for Commonwealth Edison Co., Adams and Clark Sts. $3,000,000. Noted Feb. 8.

Wis., Columbus—Dry Milk Co., 15 Park Row, New York City, will build 2 story and basement, 200 x 250 ft., dry milk factory, brick and concrete, plain foundation, by day labor, here. $150,000. L. G. House, c/o owner, engr. Architect not announced.

Wis., Milwaukee—D. Rothman, 428 4th St., will build 2 story and basement, 80 x 119 ft., brick and timber, laundry, plain foundation, 29th and Vliet Sts., by day labor. $40,000. G. Zagel & Bros., 144 Oneida St., archts.

Wis., Milwaukee—Western States Envelope Co., 255 South Water St., remodeling 4 story, brick and timber warehouse, to J. C. Garvey, 128 Wisconsin St. Archts. est. $40,000. Noted Feb. 1.

Minn., Albert Lea—Amer. Gas Machine Co., 5 story and basement, 65 x 132 ft. factory, brick and concrete, general contract to J. F. Hanson, Albert Lea. $75,000.

Minn., Minneapolis—Murphy Transfer Co., 309 3rd Ave. N., 4 story and basement,

Buildings (Continued)

114 x 119 ft. warehouse, and 2 story and basement 68 x 149 ft. warehouse, rein.-con., brick and tile, 4th St. and 9th Ave. N, general contract to J. Peterson, 3152 10th Ave. S., $161,933. Noted March 1.

Mo., Osage—J. M. Hays Grain Product Co., general contract 5 story and basement mill, capacity 100 bbl. flour and 25 bbl. corn, also power house, to Monolith Builders, 509 Mutual Bldg., Kansas City, $100,000.

Mo., St. Louis—Anheuser-Busch, Inc., 721 Pestalozzi St., 5 story, 33 x 41 ft. addition to beverage factory, brick, plain foundation, to Acme Constr. Co., Odd Fellows Bldg. Archts. est. $50,000.

Mo., St. Louis — H. C. Tulley, 1155B Union Blvd., 1 story and basement, 124 x 152 ft. industrial building, rein.-con., brick and steel, plain foundation, Duncan Ave., to C. B. McCormack & Sons, 318 North 8th St. Archts. est. $150,000.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 2 story, 54 x 225 ft., rein.-con. and brick service building, plain foundation, for St. Louis Training School for Feeble Minded, at Scott Farm, to R. B. Higgins Contg. & Wrecking Co., 1143 Childress Ave., $111,819. Noted Feb. 1.

Ark., Little Rock—Hayes Grain & Comn. Co., 423 Poplar St., 64 x 129 ft. mill, 6 tanks, 17 in. diameter, 90 ft. high, 100,000 bu. total capacity, to Monolith Builders Inc., 509 Mutual Bldg., Kansas City, Mo. Engrs. est $100,000.

Tex., Dallas—Milam Fife Connor Investment Co., c/o Rucker & Jones, agents, 1317 Commerce St., 4 story and basement, concrete and steel factory, plain foundation, to Hughes-O'Rourk Constr. Co., Praetorian Bldg., $125,000. Chevrolet Motors, lessee.

Okla., Wynnewood—See "Waterworks."

Calif., Los Angeles—Ford Motor Car Co., 7th St. and Santa Fe Ave., 2 story, auto assembling plant addition, rein.-con. and brick, general contract to Edwards, Wildey & Dixon, Black Bldg., $175,000; steel to Llewellyn Iron Wks., Main and Rondondo Sts. Noted Jan. 25.

B. C., Powell River—Powell River Co. Ltd., 65 x 130 ft. steam plant, incl. six 500 hp. Babcock-Wilcox boilers, 250 ft. concrete stack, 21 ft. at bottom, 15 ft. at top, to C. C. Moore & Co., 1125 Standard Bank Bldg., Vancouver. $200,000. Company is also considering raising dam and putting in 2 new electrical units.

Buildings

PROPOSED WORK

Mass., Boston — Apartment — Kilsyth Realty Trust, c/o Silverman, Brown & Keenan, archts., 51 Cornhill, having plans prepared, six 3 story and basement, 75 x 300 ft., connected, brick and stone, wood pile foundation, Warren St. $450,000.

N. Y., Attica—High School—Bd. Educ., rejected bids opened Feb. 26, 3 story, 80 x 150 ft., brick and stone, Prospect St. $250,000. Will readvertise. Noted Feb. 1.

N. Y., Solvay (Syracuse P. O.)—High School—Bd. Educ. rejected bids for new high school, $400,000. Will readvertise. M. L. King, Snow Bldg., Syracuse, archt. and engr. Noted Feb. 1.

N. J., Atlantic City—Apartment—P. H. Johnson, archt., 1713 Sansom St., Phila., soon lets contract 10 story and basement, 53 x 150 ft., cut stone and brick, Indian and Pacific Aves., here, for W. Penn Apartment Co., c/o architect. $750,000.

Pa., Charleroi—High School—Bd. Educ., and J. C. Brenton, archt., 1st Natl. Bank Bldg., rejected bids for 2 story and basement, 115 x 177 ft. $150,000. Will readvertise in about one month.

Pa., Johnstown—Church and Parsonage—Trinity Evangelical Church, Willow St., takes bids about April 15, for 1 story and basement, 90 x 100 ft. brick, steel and stone, Somerset and Willow Sts. $150,000. S. V. Carmaney, pastor. J. E. Adams, Nemo Bldg., archt.

Pa., Johnstown — High School — School Dist. plans 3 story and basement, 200 x 200 ft. rein.-con., brick and steel, Somerset St. $1,000,000. S. J. Slawson, supt.

Tenn., Chattanooga — Hotel — Chamber Commerce having plans prepared by McKim, Mead & White, archts., 101 Park Ave., New York City, hotel containing 300 rooms, rein.-con., tile and stucco, Lookout Mt. $1,200,000.

O., Columbus—Medical Science—C. E. Steele, secy. Bd. Trustees Ohio State University rejected bids opened Feb. 20, 4 story and basement, 75 x 145 ft., brick, stone and concrete, on campus. Will readvertise. Noted March 1.

Mich., Detroit — Hotel — Cadillac Hotel Co., 234 Michigan Ave., having plans prepared for 18 story and basement, 800 rooms, rein.-con., brick and steel, plain foundation. $2,500,000. Architects name withheld.

Mich., Grand Rapids — Science — H. A. Brink, 117 Monroe Ave., representing owner, having plans prepared by B. K. Gibson Co., archts., 624 South Dearborn St., Chicago, 10 story, rein.-con., brick and terra cotta, Sheldon Ave. $1,000,000.

Mich., Jackson — Church — St. Marys Church, having plans prepared by Spier & Gehrke, archts., 310 Park Bldg., Detroit and soon takes bids 2 story, 105 x 165 ft., rein.-con., brick and steel, plain foundation, Mechanic and Wesley Sts. $200,000.

Ill., Chicago—Office—H. Bloomfield, c/o Great Western Discount Co., 118 North La Salle St., having plans prepared by Marshall & Fox, archts., 721 North Michigan St., 22 story, 80 x 80 ft., Wells St. near Madison St. $2,500,000.

Kan., Pittsburg — Temple — Masonic Lodge, had plans prepared and soon takes bids 2 story and basement, 150 x 180 ft., brick, steel, rein.-con. and stone. $300,000. T. W. Williams & Co., 312 Natl. Bank Bldg., Topeka, archts. Noted Dec. 28.

Neb., Fairbury—School—Bd. Educ., soon takes bids 1 story, 90 x 160 ft., rein.-con. and brick. $200,000 bonds voted. Fiske & McGinnis, Bankers Life Bldg., Lincoln, archts. Noted Dec. 14.

Neb., Omaha—Store—G. B. Prinz, archt., 1037 Omaha Natl. Bank Bldg., soon takes bids 3 story, 44 x 88 ft., brick and steel, addition, 1507 Dodge St., for T. Kilpatrick Co., 1507 Dodge St. $150,000-$175,000.

Tex., Houston—Chemistry—Rice Institute, Commercial Bank Bldg., soon takes bids 3 story, concrete and stone. $1,000,000. W. W. Watkins, Scanlan Bldg., Houston, engr.

Tex., San Antonio — Church — Catholic Church having revised plans prepared by M. L. Diver, engr., Calcasiun Bldg., and F. B. Gaenslen, archt., Bedell Bldg., 1 story, 90 x 110 ft., rein.-con., brick and stone. $300,000. Noted Nov. 2.

Tex., Texarkana — Union Depot — Texarkana Terminal Co. plans union depot. $750,000. Missouri Pacific, Texas & Pacific, St. Louis & South Western and Kansas City Southern Railroads interested. E. A. Hadley, Railway Exch., Kansas City, ch. engr.

Okla., Ardmore — Church — Methodist Church Congregation having plans prepared by Hawk & Parr, archts., 101 Magnolia Bldg., Oklahoma City, 2 story and basement, rein.-con., brick, stone and terra cotta, Main St. $175,000.

Okla., Okmulgee—Hotel—Smith & Senter, archts., 401 Commerce Investment Bldg., takes bids about May 1, 9 story and basement, 100 x 140 ft. rein.-con., stone and terra cotta, 3rd and Morton Sts., for Creek Hotel Co. $1,000,000. Noted Feb. 8.

Okla., Muskogee—Lodge—Masonic Lodge plans lodge. $200,000. W. F. Moffatt, chn. Engineer and architect not selected.

Colo., Denver—School—School Dist. had plans prepared and takes bids about March 12, combined grade and junior high school, brick, terra cotta, rein.-con. and tile, plain foundation, Lincoln St. and 44th Ave. $200,000. M. S. Fallis Architect Co., Ideal Bldg., archts.

Colo., Denver—School—School Dist. having plans prepared by Montjoy & Frewen, archts., Chamber Commerce Bldg., and takes bids in about 60 days 2 story, 80 x 250 ft., brick, rein.-con. and terra cotta, 22nd and Glenarm Sts. $300,000.

Wash., Olympia—Capitol—Senate appropriated $3,000,000 for new capitol building.

Wash., Tacoma—College of Puget Sound had plans prepared first unit of new college, $300,000. College complete to cost $1,750,000. E. H. Todd, pres.

Calif., Fresno—Bank and Office—Bank of Italy, Market and Powell Sts., San Francisco, plans fireproof, Bway. and Mariposa Sts. To exceed $250,000.

Calif., Glendale—School—March 15, to vote on $500,000 bonds for new school buildings. Noted Feb. 8.

Calif., Los Angeles—Store and Apartment—W. G. Terry, 457 South Western Ave., having plans prepared by L. Jones, archt., Grosse Bldg., 4 story and basement, 60 x 140 ft., brick, 5th and Western Aves. To exceed $150,000.

Calif., Sacramento—Hospital—Sister Hospital, c/o R. A. Herold, archt., Forum Bldg., takes bids in about two weeks, 5 story and basement, rein.-con. and terra cotta, 40th and J Sts. $600,000.

Calif., San Francisco — Office — W. B. Wagnon, c/o A. G. Headman, archt., New Call Bldg., having plans prepared 4 story and basement, 75 x 165 ft., rein.-con., Market St. near 7th St. $350,000. H. J. Brunnier, Sharon Bldg., engr.

Ont., Ottawa — Archives — Dept. Pub. Wks., having plans prepared by R. C. Wright, archt., Dept. Pub. Wks., and soon takes bids for addition to Archives Bldg., Sussex St. $150,000.

B. C., Point Grey—Dormitory, etc.—University of British Columbia, 10th and Willow Sts., having plans prepared by H. Whittaker, archt., c/o Dept. Pub. Wks., Parliament Bldg., Victoria, and takes bids in about 1 month 2 and 3 story frame buildings, incl. dormitories, power house, etc. $350,000.

BIDS DESIRED

Mass., Springfield—Office—March 15, by Brown & Von Buren, archts., 185 Church St., New Haven, Conn., 6 story, 70 x 111 ft., brick and steel plain foundation, Vernon St., for L. W. Besse, 21 Besse Pl., Springfield. $250,000. Noted Dec. 28.

Mass., Westfield — Gymnasium — March 19, by M. B. Harding, archt., 33 Elm St., 2 story, 75 x 100 ft., Elm St., for Father Mathew T. A. B. Society, c/o E. J. Cleary, 52 Union St. $150,000.

N. Y., Brooklyn—School—March 21, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., P. S. 190, Sheffield Ave. 100 ft. south of Riverdale Ave. Noted Oct. 26.

N. Y., New York—Schools—March 21, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, addition to P. S. 121, southerly side of East 103rd St. also annex to P. S. 72, Lexington Ave., East 104th and East 105th Sts., here. Noted Oct. 12 and Nov. 30.

N. Y., Rochester—Office—Hutchinson & Strutz, archts., 316 Cutler Bldg., receiving bids 4 story, 70 x 225 ft., brick and steel addition, 46 Clinton Ave. S., for B. Forman & Co. $150,000.

N. J., Newark—Temple—March 14, by Salaam Temple A. A. O. N. M. S., 1020 Broad St., brick and stone, plain foundation, Broad St. $1,000,000. F. Grad, 245 Springfield Ave., archt. Noted Jan. 4.

Pa., Allentown—School—March 13, by T. P. Weiner, secy. School Dist., 31 South Penn St., 24 rooms and gymnasium, St. Cloud and Walnut Sts. $150,000. Jacoby & Everett, Allentown, archts.

Pa., Clearfield—Temple—March 30, by Bd. Trustees of Loyal Order of Moose, 315 Market St., 3 story and basement, 70 x 100 ft. W. V. Justus, 329 East Mahoning St., Punxsutawney, archt.; adv. this issue. Noted Feb. 15.

Pa., Freeport—High School—April 1, by Bd. Educ., 2 story and basement, 100 x 200 ft., 4th St. $200,000. W. G. Eckles, Lawrence Savings Bldg., New Castle, archt.

Pa., Jeannette—Church—C. H. Strong, archt., Union Bank Bldg., Pittsburgh, taking bids 1 story and balcony, 86 x 156 ft., 7th St., for Sacred Heart Catholic Congregation. $150,000.

Pa., Mt. Carmel—Church—P. A. Monoghan, archt., 1713 Sansom St., Phila., taking bids 1 story and basement, 57 x 151 ft. rein.-con., brick and steel, plain foundation, for St. Josephs Roman Catholic Church, Mt. Carmel. $200,000.

Pa., Mt. Union—School—March 17, by School Bd., 2 story and basement, 42 x 63 ft. rein.-con. and brick, Market St. $150,000. Hersh & Sholler, Commerce Bldg., Altoona, archts.

Pa., Oil City—School—March 22 (change of date) by Bd. Educ., 3 story and basement, 147 x 150 ft. brick, Mylan, Harriot and Washington Aves. $50,000. E. Bailey, Chambers Bldg., archt. Noted Jan. 18.

Pa., Phila.—Apartment—L. B. Rothchild, archt., 145 South Broad St., taking bids 16 story and basement, 100 x 138 ft. rein.-con., brick, steel and stone, 19th and Chestnut Sts., for Heyman & Bros., 145 South Broad St. $2,000,000.

Pa., Phila. — Office — L. B. Rothchild, archt., 145 South Broad St., taking bids 12 story and basement, rein.-con. and brick, 1019-1023 Arch St., for W. Goldstein, c/o architect. $700,000.

Del., Wilmington—Hospital—F. R. Watson, archt., 1211 Walnut St., Phila., taking bids 4 story and basement, 41 x 175 ft. and 35 x 45 ft., stone and brick, plain foundation, 7th and Clayton Sts., here, for Sisters of St. Francis, Glen Riddle, Pa. Noted Jan. 11.

Md., Sykesville—Epileptic Colony—March 21, by Springfield State Hospital, c/o J. C. Clark, Room 502, 22 Light St., Baltimore, 3 story, 38 x 96 ft. administration, 1 story, 40 x 96 ft. dining room, two 2 story, 30 x 90 ft. dormitories, brick, plain foundations, here. $150,000 H. P. Hopkins, 347 North Charles St., Baltimore, archt.

Buildings (Continued)

D. C., Wash. — School — March 15, at Room 509 Dist. Bldg., altering and constructing addition to Garison School; adv. this issue. Noted Aug. 3.

Va., Roanoke—High School—March 15, by School Bd., c/o J. A. Page, stone and brick, plain foundation, 6th and Campbell Sts. $600,000. H. C. Richards, 608 Chestnut St., Phila., archt.

Tenn., Memphis — Office — March 21 (change of date), by L. T. Dinford, pres. Columbian Mutual Life Insurance Co., Main and North Court Sts., 22 story, 72 x 75 ft., rein.-con., steel and brick, concrete pile foundation, $1,000,000. Boyer & Baum, 428 Arcade St., St. Louis, Mo., archts. Noted Feb. 8.

O., Cleveland — Hospital — March 10, by Babies & Childrens Hospital, c/o A. Garfield, archt., Natl. City Bldg., 9 story, 60 x 151 ft., brick, steel and concrete, 11029 Euclid Ave. $500,000.

O., Marietta—Bank and Office—Weary & Alford, archts., 1907 South Michigan Ave., Chicago, taking bids 10 story and basement, 50 x 114 ft., brick, stone, steel and terra cotta, 2nd and Putman Sts., here, for Peoples Banking & Trust Co. $400,000.

Ill., Chicago — Apartment — Cochran & Downey, c/o W. E. Smith, archt., 305 East 55th St., taking bids 3 story, 135 x 200 ft., rein.-con., brick and steel, 72nd and Bennett Sts. $275,000.

Ill., Chicago — Apartment — Ludgin & Leviton, archts., 53 West Jackson St., taking bids 3 story, 150 x 188 ft., rein.-con., brick and steel, Shubert and Spaulding Sts. $350,000. Owners name withheld. Noted Feb. 8.

Ill., Evanston—Apartment—A. H. Quitsow, archt., 11 South La Salle St., Chicago, taking bids 3 story, 100 x 154 ft., rein.-con. brick and steel, Keeney Ave. and Sheridan St., here. $150,000. Owners name withheld.

Wis., Milwaukee—Club—March 19, by Milwaukee Elks Lodge, 448 Jefferson St., and R. A. Messmer & Bros., archts., 221 Grand Ave., superstructure for 9 story, 110 x 145 ft., brick and concrete, plain foundation, Juneau Pl. $1,000,000.

Wis., Milwaukee—Office—March 12, by Rosman & Wierdsma, archts., 424 Jefferson St., superstructure for 8 story, 60 x 120 ft., brick and concrete, Bway., for S. E. Tate Printing Co., 133 2nd St. $300,000.

Wis., Milwaukee—School and Convent—March 15, by A. C. Eschweiler, archt., 141 Wisconsin St., 3 story and basement, 100 x 200 ft. and 40 x 90 ft., brick, tile and concrete, plain foundation, Clybourn St., for St. Rose of Lima Congregation, 3007 Sycamore St. $350,000.

Wis., West Bend—High School—March 27, by Dist. 1, 2 story and basement, 160 x 180 ft., brick, tile and concrete, plain foundation. $180,000. F. W. Bucklin, clk. Foeller, Schober & Stephenson, Nicollet Bldg., Green Bay, archts.

S. D., Capa—Sanitorium—April 31, by J. C. Ewing, archt., Rapid City, Ia., 2 story and basement, 120 x 124 ft. rein.-con., brick and tile, for Capa Hydro Sanitorium Co. $150,000. Noted March 1.

S. D., Sioux Falls—School—March 30, by Bd. Educ., 2 story and basement, rein.-con., brick, stone and tile. $150,000. Perkins & McWayne, Paulton Blk., archts.

Ont., Midland—School—March 15, by C. A. Wilson, secy.-treas. Bd. Educ., 2 story and basement, 8 room, concrete, brisk and stone addition. $150,000. W. F. Smith, Midland, archt.

BIDS RECEIVED

N. J., New Brunswick—Animal Husbandry—B. G. Lewis, comr. State House, Trenton, opened bids Feb. 26, general contract 2 story and basement, 80 x 105 ft., brick and limestone, here, for State Agricultural College, from G. B. Rule, 71 John St., $134,000; Gibbs-Mueller Co., 215 South Broad St., Phila., $159,989; T. H. Flynn, 390 George St., $179,000. Noted Feb. 8.

Pa., Phila.—Hall—F. H. Caven, dir. pub. wks., City Hall, opened bids Feb. 28, 3 story and basement, 67 x 122 ft concrete, brick and steel, plain foundation, Germantown Ave. and Haines St., from Mitchell-Houseworth Co., 2512 North 27th St., $424,713; P. H. Kelly Co., 1713 Sansom St., $475,000; W. R. Dougherty, 1608 Sansom St., $516,840.

O., Cleveland Heights (Warrensville P. O.)—School—Bd. Educ., 1005 Lee Rd., opened bids Feb. 21, 2 story, 100 x 211 ft., brick, steel and concrete, Euclid Heights Blvd., from C. Peterson Co., 4500 Euclid Ave., Cleveland, $216,000; Schirmer O'Hara Constr. Co., 2031 Euclid Ave., Cleveland, $233,068; M. B. Parker Constr. Co., 1836 Euclid Ave., Cleveland, $236,257. Noted Feb. 1.

O., Massillon—High School—Bd. Educ., 2 story and basement, North St., from N. Miller, 1918 Remont St., $172,577; A. F. Wendling, Erie St., $181,300; R. G. Witters, Cleveland & 3rd Sts., Canton, $183,500.

Calif., Stockton—High School—City, 1 and 2 story, brick, steel, concrete and terra cotta, general contract from Mathews Constr. Co., Forum Bldg., Sacramento, $383,266, K. E. Parker Co., Clunie Bldg., San Francisco, $386,683, W. Murcell, Ochsner Bldg., Sacramento, $388,274; plumbing and sewers from Hateley & Hateley, Mitau Bldg., Sacramento, $32,598; heating and ventilating from Hateley & Hateley, Mitau Bldg., Sacramento, $56,518; electrical work from Latourette-Fical Co., 907 Front St., Sacramento, $34,800; steel work from Palm Iron & Bridge Co., 1814 15th St., Sacramento, $53,640. Noted Feb. 15.

CONTRACTS AWARDED

Mass., Boston—Apartment—Abrams & Altman, c/o Silverman, Brown & Heenan, archts., 51 Cornhill, having plans prepared, three 4 story and basement, 90 x 150 ft., brick and stone, wood pile foundation, Audubon Rd. $375,000. Work will be done by day labor.

Mass., Boston—Business—S. S. Kresge Co., Kresge Bldg., Detroit, Mich., 6 story, brick, concrete, steel and stone, Bromfield St., to W. A. and H. A. Root, Inc., 1 Beacon St. Archts. est. $400,000.

Mass., Brighton (Boston P. O.)—Apartments—Meltzer & Snider, 1933 Beacon St., Brookline (Boston P. O.), will build four 4 story, rein.-con., steel and brick, plain foundations, Orkney and Strathmore Rds., here, by day labor. $350,000. Silverman, Brown & Heenan, 51 Cornhill, Boston, archts. Noted March 1.

Mass., Springfield — Office — Terminal Realty Trust, 318 Main St., 7 story, 50 x 75 ft., brick and steel, plain foundation, Main and Lyman Sts., to Klingberg Co., 318 Main St., $250,000.

Conn., New Haven—Club—Yale University, 3½ story and basement, 70 x 170 ft., cut stone, blue stone and granite, plain foundation, Campus, to F. T. Ley Co., Inc., 499 Main St., Springfield, Mass. Archts. est. $500,000.

N. Y., Brooklyn — Apartment — M. Ansorge, c/o B. W. Dorfman, archt. and engr., 26 Court St., brick, steel and stone, plain foundation, Quentin Ave., by day labor.

N. Y., Brooklyn—Apartment—J. Brooks & sons, c/o Seelig & Finkelstein, archts. and engrs., 44 Court St., brick, steel and stone, plain foundation, Farragut Rd., by day labor. $150,000.

N. Y., Jamestown—High School—Bd. Educ., general contract 3 story, 150 x 180 ft., brick, Buffalo St., to Mullen, Guinane & Ludwig, 10 Prendergast Bldg., $270,441; heating and ventilating work, to Chatfield & Sharp, 304 Pine St., $46,125. Noted Feb. 1.

N. Y., New York—Apartment—M. Adler, c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., 6 story, 110 x 110 ft., brick, steel and stone, plain foundation, Nelson Ave., by day labor. $350,000.

N. Y., New York—Apartment—J. Silverson, c/o Sommerfeld & Steckler, archts. and engrs., 31 Union Sq., 5 story, 120 x 125 ft., brick, steel and stone, plain foundation, Burnside Ave., by day labor. $350,000.

N. Y., New York—Apartment—Schneider Holding Co., c/o W. Koppe, archt. and engr., 567 East Tremont Ave., 6 story, 150 x 200 ft., brick, steel and stone, plain foundation, Mott Ave. near 156th St., by day labor. $700,000.

N. Y., New York — Schoo. — W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, addition to P. S. 12, Frisby Ave., to G. E. Dekempe, New York Ave., Union Hill, N J., $239,000. Noted March 1.

N. Y., New York — Schoo. — W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 63, brick, steel and stone, plain foundation, Franklin Ave. near 168th St., here, to P. J. Brennan & Sons, 624 Madison Ave., $717,775. Noted Feb. 22.

N. Y., Saratoga Springs—High School—Bd. Educ. general contract new high school, Lake Ave., to Kenneth Mackay & Co., 9 Culver St., Yonkers, $329,651; heating and ventilating work, to J. F. Craig & Co., 617 Communipaw Ave., Jersey City, N. J., $39,450. Noted Sept. 28.

N. J., Bloomfield—Community and School—Sacred Heart Parish, 76 Broad St., 125 x 150 ft., brick, steel and stone, plain foundation, to Gunn, Van, Dale Co., 9 Clinton St., Newark. Archts. est. $200,000. Noted Jan. 25.

N. J., Newark—Clubhouse—N. J. Convery, archt., 942 Broad St., and Warren & Wetmore, associated archts., 16 East 47th St., New York City, 12 story, 100 x 150 ft., brick, steel and stone, plain foundation, Broad and Camp Sts., here, to D. W. McGee Constr. Co., 142 1st St., for B. P. O. E., 27 Green St. $1,135,085. Noted Dec. 21.

Pa., Bryn Mawr — Hospital — A. H. Brockie, archt., 254 South 15th St., Phila., 2 story and basement, 40 x 117 ft. and 2 story, 10 x 65 ft. brick and stone, plain foundation, to Ketcham & McQuade, 1029 Brown St., Phila. for Bryn Mawr Hospital. $155,000. Noted Feb. 15.

Pa., Ellwood City—School—G. B. Hancher, secy. Bd. Educ., 2 story and basement, 87 x 190 ft., brick and steel, Crescent Ave., to Prahl Constr. Co., Erie. Archts. est. $220,000. Noted Feb. 8.

Pa., Hazelton—Hotel—Altamount Hotel Co., 8 story and basement, 92 x 144 ft. brick, steel and stone, plain foundation, to Wark & Co., 231 South Broad St. Archts. est. $500,000.

Pa., Lock Haven—Lodge—J. W. Dickey, chn. Bldg. Com. Masonic Temple Assn., 3 story and basement, 60 x 160 ft. brick and steel, Main and Grove Sts., to Boydhouse-Arey Co., 212 North Broad St., Phila., $148,376. Noted Feb. 1.

Pa., Natrona—High School—Bd. Educ., 2 story and basement, 156 x 179 ft. concrete, brick and steel, to Natl. Concrete Fireproofing Co., Citizens Bldg., Cleveland, O., $176,700.

Pa., Phila.—Recreation—H. Trumbauer, archt., Land Title Bldg., 10 story and basement, 50 x 136 ft., rein.-con., brick and steel, 307-311 South Broad St., to G. Fuller Co., Morris Bldg. Archts. est. $1,000,000. Owner's name withheld. Noted Jan. 11.

Pa., Phila.—Sales, etc.—C. Kahn, Morris Bldg., 4 story and basement, 37½ x 160 ft. sales and service building, 1415 North Broad St., to Nelson Pedley Constr. Co., 1615 Spruce St., E. Wilkie Motor Co., 917 North Broad St., lessee. Archts. est. $200,000.

Pa., Phila.—Schools—Director Bd. Educ., 19th and Chestnut Sts., 3 story and basement, 146 x 170 ft. school on Wakeling and Large Sts., to McCloskey & Co., 1620 Thompson St., $442,322; 3 story and basement, 146 x 171 ft. on Knoor and Cottman Sts., to Cramp & Co., Denckla Bldg., $443,931. Noted Feb. 15.

Pa., Phila. — Store and Office — C. P. Berger, archt., 1512 Walnut St., 4 story and basement, 44 x 230 ft., brick, steel and stone, plain foundation, 1924-26 Chestnut St., to Smith-Hardican Co., 1809 Callowhill St., for Phila. Art Galleries, 15th and Chestnut Sts. Archts. est. $175,000. Noted Feb. 1.

Pa., Pittsburgh—High School—Bd. Educ. Fulton Bldg., 3 story, basement and subbasement, 140 x 300 ft. addition, Margaretta and Beatty Sts., general contract to P. H. Kelly Co., Sansom St., Phila.; heating and ventilating to Ryan Heating Co., 53 Tunnel St., $90,652; plumbing to W. Hillbach, 651 West Baltimore Ave., Baltimore, Md., $36,900. Total est. $500,000. Noted Jan. 25.

Pa., Sharon—Church—First Methodist Church, brick church, North Irving Ave., to W. McIntyre & Sons, Sharon. Archts. est. $150,000.

Pa., State College—Clubhouse—Day & Klauder, archts., Franklin Bank Bldg., Phila., 4 story and basement, 79 x 170 ft. brick, steel and stone, plain foundation, to F. L. Hoover & Sons, 1023 Cherry St., Phila., for Penna. State College. Archts. est. $350,000. Noted Jan. 4.

Md., Baltimore — Apartment — Carolina Apartments Co., 111 North Charles St., two 4 story, 112 x 166 ft., brick, plain foundations, University Parkway near 39th St., to J. L. Robinson Constr. Co., 1130 West Lafayette Ave., $400,000. Noted Feb. 15.

Md., Baltimore—Club—City Club, Munsey Bldg., 6 story, 50 x 175 ft., brick and steel, plain foundation, St. Paul and Saratoga Sts., to J. H. Miller, Inc., Eutaw and Franklin Sts., $500,000. Noted Jan. 18.

Md., Baltimore—Laboratory—Johns Hopkins University, 4 story, 98 x 148 ft., brick and steel, Charles St., to Consolidated Eng. Co., Calvert Bldg., $600,000. Noted Jan. 11.

Md., Baltimore—Store—W. T. Grant Co., 28 West 23rd St., New York City, altering 5 story, brick, 214-20 West Lexington St., here, to T. Hicks & Son, 106 West Madison St., $150,000.

D. C., Wash.—Office—Potomac Electric Power Co., 231 14th St., N. W., office building, 13½ St. and C St., N. W., to Parson & Hyman, 816 14th St., $200,000. Noted Feb. 22.

W. Va., Huntington—Office—H. A. Robson and F. C. Prichard, Robson-Prichard Bldg., 10 story and basement, 40 x 40 ft., addition, to Arnold Co., 105 La Salle Ave., Chicago. Archts. est. $150,000.

Fla., De Land—Hotel—Putnam Hotel Co., 3 and 5 story, brick and steel, general contract to Emerson Constr. Co., Eustis, $150,000.

Buildings (Continued)

Tenn., Chattanooga — Office — Provident Life & Accident Insurance Co., Broad St., 12 story, tower type, 3 floors extending in north and south wings and 9 stories above, to Parks & Co., Ham. Bank Bldg., $450,000. Noted Feb. 22.

Tenn., Memphis—Administration—Southwestern College, 2 story, (1st unit), Arkansas stone, brick, etc., Poplar Blvd., to Kaucher-Hodges Co., Exch. Bldg., $150,000.

Tenn., Memphis—Apartment—Hobson & Berns, U. & P. Bank Bldg., apartment building, brick, 1508 Madison Ave., to Cude & Co., Candler Bldg., Atlanta, Ga., $150,000.

O., Cincinnati — School — Bd. Educ., 511 West Court St., 5 story, 76 x 121 ft., brick, plain foundation, McMillan and Clifton Aves., concrete work to Ross-Meyer-Heck Co., Cincinnati (street address not available); stone to David Hummel Building Co., 2629 Spring Grove, C. W.; carpentry to J. Griffith & Sons Co., Reading Rd. and East 12th St.; iron to Grimm Iron Wks. Co., 2431 Spring Grove; marble to Cassino Marble Co., Cincinnati, (street address not available); plumbing to E. Black Plumbing Co., 123 East 12th St. Archts. est. $400,000. Noted Dec. 14.

O., Columbus—Administration—C. E. Steele, secy. Bd. Trustees Ohio State University, 3 story and basement, 100 x 180 ft., brick, concrete and stone, on campus, to D. W. McGrath & Sons, 255 East Broad St., $304,700. Noted March 1.

O., Oxford—Library—Trustees Miami University, 2 story, 78 x 109 ft., brick and concrete addition to Alumni Library, to Boyajohn & Barr, 8 East Broad St., Columbus, $110,000. Noted Jan. 25.

Mich., Coldwater—High School—R. Leroy, archt., Pratt Bldg., Kalamazoo, superstructure for high school for Bd. Educ., to Gratton Bros., Shiawassee St., Lansing, $125,000. Noted Feb. 22.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., 2 story and basement, rein.-con., brick and steel, plain foundation, Linwood Ave., to Culbertson & Kelly, 872 West Milwaukee Ave., $320,160.

Mich., Detroit—Store and Office—Donovan Bldg. Co., c/o A. Kahn, archt., 1000 Marquette Bldg., 10 story and basement, 60 x 200 ft. rein.-con., brick and steel, plain foundation, Woodward Ave. and Duffield St., to A. A. Albrecht, 1130 Penobscot Bldg. Noted Nov. 30.

Mich., Grand Rapids—High School—Bd. Educ., City Hall, 3 story, rein.-con., brick and steel, plain foundation, to E. Gentz, Powers Bldg., $308,400. Noted Feb. 8.

Wis., Kenosha—Grade Schools—School Bd. two story and basement, brick, tile and concrete schools, plain foundations, one on Fairfield St. other on North Bronson St., to M. Madsen, Builders Exch., Minneapolis, Minn., $117,500 each. Noted March 1.

Wis., Milwaukee—School—St. Michaels Congregation, 469 24th St., 2 story and basement, 60 x 150 ft., brick, tile and concrete, plain foundation, 24th and Cherry Sts., to E. Steigerwald & Sons, 2303 Galend St. Archts. est. $150,000. Noted Feb. 9.

Wis., Whitefish Bay — Apartment — E. R. Tompkins, 445 Milwaukee St., 3 and 2 story, 50 x 72 ft. and 26 x 115 ft., brick, tile and concrete, plain foundation, Newhall St., to R. L. Reisinger & Co., 464 Oakland Ave., Milwaukee. Archts. est. $150,000.

Minn., Chisholm — High School — Bd. Educ., 3 story, 200 x 402 ft. rein.-con., general contract to J. and W. A. Elliott, Lumber Exch. Bldg., Minneapolis, $562,933. Archts. est. $650,000. This corrects report in Feb. 1 issue.

Minn., Minneapolis—High School—Bd. Educ., 2 story and unfinished basement, 45 x 250 x 300 ft., with 1 story, 60 x 80 ft. wing, rein.-con., brick and tile, 26th St. and Emerson Ave. S., general contract to Standard Constr. Co., 1101 Plymouth Bldg., $361,325 (incl. concrete piling). Noted March 1.

Minn., Minneapolis—School and Rectory—Church of Annunciation, c/o F. Lang, 5101 Nicollet Ave., 2 and 3 story and basement, 39 x 104 x 169 ft. school, and 2 story and basement, 19 x 50 x 60 ft. rectory, brick and tile, 50th St. and Lyndale Ave. S., general contract to E. J. Dunnigan, 315 Guardian Life Bldg., St. Paul. Building complete $200,000. Noted Jan. 25.

Tex., Dallas—Club—Dallas Athletic Club, general contract 14 story and basement, 200 x 300 ft., rein.-con., brick, stone and steel, plain foundation, Elm, St. Paul and Live Oak Sts., to Central Contg. Co., Deere Bldg., $878,000. Total $1,500,000. Noted Feb. 8.

Okla., Oklahoma City—Office—Mann Co., Amer. Natl. Bank Bldg., will build 6 story and basement, 100 x 100 ft., rein.-con., brick and stone, 2nd and Harvey Sts., by day labor. $250,000. Hawk & Parr, 101 Magnolia Bldg., archts. Noted Feb. 22.

Colo., Denver—Hall—Regis College, West 50th St. and Lowell Blvd., general contract 4 story and basement, 150 x 175 ft., residence hall, to W. Tamminga, 1620 South Washington St., $162,000. Archts. total est. $230,000.

Calif., Los Angeles—Office—Wholesale Property Co., 8 story, rein.-con., Orange St., to Wallace & Bush, Van Nuys Bldg., $300,000.

Calif., San Diego — Hotel — Hotel San Diego, 7 story, 100 x 110 ft., rein.-con. addition, to Lange & Bergstrom, Washington Bldg., Los Angeles, $450,000. Noted Feb. 22.

Calif., San Francisco—Apartment—Huntington Apartments, 12 story, brick, steel and terra cotta, incl. incinerator, refrigerators, etc., Taylor and California Sts., to Cahill Bros., 110 Sutter St., $1,300,000. Noted March 1.

Calif., San Francisco — Office — Spring Valley Water Co., 475 Sutter St., 7 story and basement, 60 x 70 ft., rein.-con., Mason and Derby Sts., concrete work to H. L. Petersen, 62 Post St.; carpentry work to W. D. Henderson, Monadnock Bldg.; brick and hollow tile to W. N. Reed, 180 Jessie St.; heating and ventilating to Scott Co., 243 Minna St.; plumbing to J. H. Pinkerton, 927 Howard St. Noted Nov. 9.

Que., Montreal—Court House—A. Galipeault, minister Pub. Wks. 96 x 224 x 225 ft. rein.-con., brick, steel and stone annex to Court House, Notre Dame St., general contract to A. Gratton and Atlas Constr. Co., Belmont St., $1,943,560; plumbing to J. Ballantyne, 163 Nazareth St., $216,987; foundation to Foundation Co., 511 St. Catherine St. W., $350,000; structural steel to Dominion Bridge Co., Lachine, $182,500. Noted Jan. 11.

Federal Government Work

PROPOSED WORK

N. H., Portsmouth — Barracks — Spec. 4795—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans remodeling marine barracks, here.

D. C., Wash.—Conservatory—Director Botanical Gardens plans altering and repairing conservatory, 1st and Pennsylvania Aves., N. W.

Md., Annapolis—Mechanical Equipment—Spec. 4796—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans mechanical equipment for swimming pool, here.

Va., Norfolk—Wharf—Spec. 4777—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids extension to Wharf C, here.

Fla., Pensacola—Pump House, etc.—Spec. 4793—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans pump house, timber trestle, piping and equipment, here.

La., New Orleans — Rock Protection — Superintendent Lighthouses soon takes bids furnishing and placing approximately 1,800 ton rock protection around Sand Island Light Station, Ala.

Tenn., Memphis—Tank—U. S. Engineer plans fuel oil storage tank for Mississippi River Dist.

Panama—Towers—Spec. 4794—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans dismantling towers at St. Petersburg, Fla., and erecting same, here.

T. H., Pearl Harbor—Water Supply—Spec. 4792—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans auxiliary water supply, here.

BIDS DESIRED

N. Y., Staten Island—Machine Shop—March 26, by Superintendent Light Houses, 3 story, rein.-con. machine shop addition, at General Lighthouse Depot, Tomkinsville.

Fla., Jacksonville—Dredging, etc.—April 3, at office U. S. Engineer, Jacksonville, dredging and rock removal in Tampa Harbor, Fla.; adv. this issue.

Ala., Florence—Head-Gate Track, etc.—April 2, at office U. S. Engineer, Florence, furnishing head-gate track, screen track, seal castings, etc., for power house section of Wilson Dam; adv. this issue.

Ky., Louisville—Piling, April 5, at office of U. S. Engineer, P. O. Box 72, furnishing and delivering steel sheet piling for Dam 44, Ohio River; adv. this issue. Noted March 1.

La., New Orleans—March 14, by Superintendent of Lighthouses, furnishing and placing approximately 1,800 ton rock protection around Sand Island Sta., Ala.; adv. this issue.

Mich., Detroit—Dredging, March 17, at office U. S. Engineer, Detroit, dredging in Rouge River, Mich., adv. this issue.

Calif., San Diego—Water Softening Plant—Spec. 4768—March 31, by Bureau Yards & Docks, Navy Dept., Wash., D. C., water softening plant, here. Noted March 1.

Cuba, Guantanamo—Distilling Apparatus, etc.—March 14, (change of date), by Bureau Yards & Docks, Navy Dept., Wash., D. C., distilling apparatus and heater, at Naval Station, here. Noted Feb. 15.

BIDS RECEIVED

Tex., Galveston—Dredging—U. S. Engineer, opened bids Feb. 21, dredging at Brazos Island Harbor, 1,130,000 cu.yd. excav., from J. Jackobsen, 2217 Ave. C, $0.16 and $0.15 per cu.yd., total $181,200; United Dredging Co., Galveston (street address not available) $0.28 and $0.20, $255,600. Noted Jan. 11.

CONTRACTS AWARDED

Pa., Phila.—Dredging, etc.—Spec. 4738 A and B—Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging, filling, wood bulkhead and concrete drain, here, to Amer. Dredging Co., 308 Chestnut St., $0.33 per cu.yd.; to McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, Md., (item 4a) $14,945. Noted Oct. 12.

Pa., Pittsburgh—Houses—U. S. Engineer, two lockkeepers houses at Lock 6, Monongahela River, to Charleroi Lumber Co., Charleroi, Pa., $18,130. Noted March 1.

O., Cincinnati—Horses and Props—Office U. S. Engineer, horses and props for Dams 34, 36 and 38, Ohio River, lot A, to Amer. Car Fdry. Co., Jeffersonville, Ind., $41,458; lot B, to Amer. Bridge Co., 1304 Union Trust Bldg., $33,443.

Miss., Gulfport—Hospital—Spec. 4774—Bureau Yards and Docks, Navy Dept., Wash., D. C., construction of U. S. Veterans Hospital, Part 1 (completed) to Algernon Blair, 11 South Lawrence St., Montgomery, Ala., $498,580; Part 2 water, sewer and drainage, to Hamilton Bros., Co., Gulfport, $45,802; Part 3 inside heating and outside steam, etc., to W. Wilby, Selma, Ala., $60,621; Part 4 electric work, to H. Andrae Electrical Co., 136-40 2nd St., Milwaukee, Wis., $25,022; Part 5, boiler house, to F. J. Eisinger, Brooklyn, N. Y. (street address not available) $53,594. Noted Feb. 1.

O., Cincinnati—Office U. S. Engineer, steel, etc., for Dams 36 and 38, Ohio River, lots A, B and C, to Independent Bridge Co., May Bldg., Pittsburgh, Pa., $15,719; lot D, to Center Fdry. & Mchy. Co., Wheeling, W. Va. (street address not available), $6,035. Noted Jan. 18.

Mich., Detroit — Dredging — U. S. Eng. Dept., 337 Federal Bldg., dredging channel, moving (a) 323 cu.yd. earth and (b) 175,000 cu.yd rock with possible overdepths of 16,000 cu.yd. earth and 86,000 cu.yd. rock excav., involving 323,000 yd. floating dredgework and 175,000 yd. submarine rock excav., to M. Sullivan Dredging Co., 853 Iroquois Ave., (a) $0.50 per yd. (b) $3.50.

Miscellaneous

PROPOSED WORK

Drydock—Brooklyn, N. Y.—Todd Shipyards Corp., 25 Bway., New York City, plans 800 ft. or 900 ft. drydock, here, will accommodate vessels of 40,000 to 50,000 ton capacity.

Elimination of Grade Crossing—Celoron, N. Y.—Village and Erie R.R., 50 Church St., New York City, plan eliminating grade crossing by constructing roadway under tracks of above railroad on Dunham Ave. $25,000. Z. L. Squier, village representative.

Stadium—Pittsburg, Pa.—University of Pittsburgh, Bigelow and Parkman Sts., plans rein.-con. and steel athletic statium, seating capacity 60,000 to 65,000. F. W. Hindman, Columbus, O., (street address not available), engr.

Asphaltic Cement, etc.—Scranton, Pa.—Dept. Pub. Wks., plans to purchase 400 ton asphaltic cement in tank cars, and 400 ton limestone dust. W. LaFontaine, dir.

Light and Power System—Baton Rouge, La.—See "Waterworks."

Aerial Cable, etc.—Madison, Wis.—See "Buildings."

Dikes — St. Louis, Mo. — See "Waterworks."

Grain Elevator — Springfield, Mo. — See "Industrial Works."

Subway—Pittsburg, Kan.—Having plans prepared 70 ft. rein.-con. traffic subway under Kansas City Southern Ry. tracks on East 11th St., two 12 ft. drives, two 5 ft. sidewalks, approaches 180 ft. long. L. D. Cornelius, Pittsburg, engr.

Wharf and Terminals—Corpus Christi, Tex.—Having plans prepared for wharf and terminals along harbor, $4,000,000. Sands & Cummings, Houston, engrs.

Pipe Line—Chickasha, Okla.—Nichols Oil & Drilling Co., plans complete pipe line with several auxiliary pumping plants. $300,000.

Miscellaneous (Continued)

Generator, Accessories, etc.—San Rafael, Calif.—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, plans new generator and accessories, $43,091; 125 hp. compressor, $15,295.

Transmission Line—San Rafael, Calif.—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, plans 8 in. transmission line. $215,750.

Swimming Tank—Santa Clara, Calif.—See "Buildings."

Extending Gas Mains—Sausalito, Calif.—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, plans extending gas mains between Sausalito and Mill Valley. $192,235.

Electrical Distribution System—Venice, Calif.—Defeated $100,000 bonds for electrical distributing system. Noted Feb. 15.

Subway—Ailsa Craig, Ont.—Town and Grand Trunk Ry., London, plans subway under tracks, here, steel deck, concrete abutments. $50,000. J. Wyllie, town clk. C. Forrester, c/o Grand Trunk Ry., London, engr.

Electric Lighting and Power Systems—Blenheim, Ont.—Councils of Erieau, Cedar Springs and Erie Beach having plans prepared electric lighting and power systems from here to each of above named towns, $40,000. Work will be done under supervision of V. A. Beacock, engr., 190 University Ave., Toronto.

Chute Development—Bronson, Ont.—Canadian Marble Quarries Ltd., plans to develop Egan Chutes. $250,000. Engineer not selected.

Electric Power Lines—Durham, Ont.—Hydro Electric Comn., 190 University Ave., Toronto, plans to extend lines through Grey Co. with Durham as central point. $25,000. F. A. Gaby, c/o owner, ch. engr.

Ornamental Lighting System — London, Ont.—Utilities Comn., Hydro Bldg., plans extending and enlarging ornamental street lighting system. $30,000. E. V. Buchanan, Hydro Bldg., engr.

Underground Wiring — London, Ont. — Canadian Pacific Telegraph Co., Dominion Savings Bldg., plans to place all wires in downtown section underground. Cost may run to $50,000. R. Coates, mgr.

Electric Lighting and Power System—Meaford, Ont.—Plans hydro-electric transmission line and power system. $65,000. G. G. Albery, town clk.

Grain Elevators—Port Arthur, Ont.—Gillespie Grain Co., 187 Grain Exch. Annex, Winnipeg, Man., plans to rebuild and extend rein.-con. grain elevators, here. $800,000. Engineer not selected.

Grain Elevator—Port Arthur, Ont.—J. Richardson & Sons, Royal Bank Bldg., Toronto, plan concrete addition to grain elevators, here. $500,000. Engineer not selected.

Harbor Improvements—Port Stanley, Ont.—Plans to improve harbor. $100,000

Transmission Line — Stouffville, Ont. — Plans 11 mi. transmission line to Yonge St., etc. J. Urquhart, town clk.

Subway—Toronto, Ont.—Dept. Pub. Highways, University Ave. and Dundas St., soon takes bids for subway under Grand Trunk Ry. tracks about 1 mi. east of city, 60 ft. wide, 16 ft. high. $150,000. G. Hogarth, ch. engr.

Subway—Toronto, Ont. — Voted $39,000 bonds for subway under Grand Trunk Ry. on Morley Ave., plate girder beams, concrete abutments. R. C. Harris, city engr. Noted Feb. 1.

BIDS DESIRED

Shovel, etc.—Binghamton, N. Y.—Montville Constr. Co., Peoples Trust Bldg., taking bids one No. 4 Keystone shovel (steam) and one 12 ton Buffalo-Pitts road roller.

Dump Motor Truck—Endicott, N. Y.—Village Bd. taking bids 3 yd. end dump motor truck, for Dept. Pub. Wks. C. F. Hunt, village engr.

Bulkhead and Filling—Mineola, N. Y.—March 12, by Bd. Supervs. Nassau Co., Court House, bulkhead and filling on Long Beach Rd. between Barnum Island Creek and the Upland. J. Merrith, clk. Former bids rejected; adv. this issue. Noted Jan. 18.

Mowers and Tractors—New York, N. Y.—March 13, by Bd. Purch., Municipal Bldg., furnishing and delivering mowers and tractors, to Dept. Parks—Bronx. Former bids rejected. Noted Feb. 22.

Paving Blocks—New York, N. Y.—March 13, by Bd. Purch., Municipal Bldg., furnishing and delivering creosoted wood paving blocks, to Dept. Plant & Structures.

Special Work—New York, N. Y.—March 16, by Transit Comn., 49 Lafayette St., supply of special work (frogs and switches) and track fittings for use in construction of various parts of dual system of Rapid Transit R.R.

Cable, etc. — Niagara Falls, N. Y. — March 14, by E. J. Fort, city mgr., Gluck Bldg., 1,700 ft. 12 conductor lead encased cable, 6 mi. No. 10 hard drawn copper wire with triple braid insulation and 3 police call boxes. $5,000.

Asphaltic Cement, etc.—St. George, N. Y.—March 15, by J. A. Lynch, pres. Richmond Boro, Boro Hall, furnishing and delivering 170 ton asphaltic cement at asphalt plant of Bureau of Highways, Tompkins Ave., Clifton, 100,000 gal. bituminous road surfacing material, tar, for cold application, in tank cars at any railroad station in Boro, 1,300 cu.yd. ¾ in. broken stone or trap rock or limestone 12-12, and 1,000 cu.yd. screenings of trap rock at asphalt plant of Bureau of Highways, 4,100 cu.yd. 1½ in. broken stone, 150 cu.yd. ¾ in. broken stone and 100 cu.yd. screenings of limestone 6-6 in Dist. 3; furnishing and applying 170,000 gal. asphaltic macadam binder and 170,000 gal. tar macadam binder on streets in Boro.

Sand, Stone, Gravel, etc.—Erie, Pa.—March 16, by City Council, 2,000 ton sand, 500 ton crushed stone, 500 ton gravel, 400 ton refined asphalt, 275 ton limestone dust, 750 bbl. portland cement, 24,000 gal. fuel oil. F. G. Lynch, city engr.

Cement, Gravel, etc.—Phila., Pa.—March 12, by T. F. Armstrong, purch. agt., City Hall, furnishing 2,250 bbl. portland cement $7,000, 9,100 ton crushed gravel $30,000, 130,000 gal. fuel oil $15,000, 20,000 ft. lumber $10,000.

Power Plant Machinery, etc.—Jacksonville, Fla.—March 19, power plant machinery and electric line material. W. A. Evans, chn.; adv. this issue.

Gas Mains—St. Petersburg, Fla.—March 12, by City Comrs. extending gas mains, etc. $50,000. E. C. Garvin, St. Petersburg, engr. Noted Nov. 23.

Steel Frame—New Orleans, La.—March 22, by Bd. Port Comrs., Suite 200 New Court Bldg., furnishing, erecting and painting steel frame for wharf, at Poland St. landing. J. H. Walsh, genl. mgr.; adv. this issue.

Road Grading Machine—Northfield, O.—W. H. Hale, village clk., taking bids 1 road grading machine.

Centrifugal Pump—Peru, Ind.—March 13, by city, centrifugal pump and motor. J. W. Moore, Indiana Pythian Bldg., Indianapolis, consult. engr.

Materials — Clinton, Ia. — March 12, by Auditor Clinton Co., furnishing 90,000 lb. reinforcing, 2 cars standard sawed fir lumber, 4,000 ft. corrugated metal or concrete culvert pipe. E. B. Lorenzen, Clinton, engr.

Road Tractor—Granite Falls, Minn.—March 21, by G. H. Wilson, aud. Yellow Medicine Co., road tractor. F. Van Krevelen, Granite Falls, engr.

BIDS RECEIVED

Cement, Traprock, etc.—Holyoke, Mass.—Bd. Pub. Wks., furnishing seasons supply cement, traprock, pitch, cold patch and curbing as follows: cement from C. E. Sampson & Co., Holyoke, not over 10,000 bbl. $3.01 per bbl., Prentiss Brooks Co., Holyoke, 5,000 bbl. $3.70 per bbl.; trap rock—Holyoke Street Ry. Co., 2 in. $1.60, 1½ in. $1.70, ¾ in. $1.85, ½ in. $1.95, dust $1.20 per ton, J. S. Lane & Sons, 2 in. $0.90, 1½ in. $1, ¾ in. $1.20, ½ in. $1.25, dust $0.60, all f.o.b. cars at Westfield Quarry, Amherst (notch) quarry, 2 in. $1, 1½ in. $1.10, ¾ in. $1.25, ½ in. $1.25, dust $0.60, f.o.b. cars, there, all by ton; curbing—H. E. Fletcher Co., West Chelmsford, Vt., 6 in. granite, straight, $1.40 per ft., circular $2 per ft., straight 4 in. $0.90 per ft., circular $1.30, L. P. Palmer & Sons, Graniteville, 6 in. straight $1.25, circular $1.50, 4 in. straight $0.90, circular $1.25, F. G. Rogers, Monson, 6 in. straight $2.08, circular $3.12, 4 in. straight $1.58 circular $2.37, (a) cold patch, (b) pitch—T. J. Gibson & Co., Holyoke, (a) $0.20 per gal. (b) $24.50 per ton, Barrett Co., 35 Wendell St., Boston, (a) $0.187 per gal. (b) $27.30 per ton, S. Cabot Inc., 141 Milk St., Boston, (b) $26.40 per ton, M. Moulton Jr., Inc., 6 Beacon St., Boston, (a) first grade, "Aztec," carload lots, $0.20 per gal., less than carload $0.22 per gal., (b) $32.48 ton carload lots, less than carloads $33.64 per ton, 2nd grade (a) $0.164 per gal., carloads, less than carload $0.18 per gal., Atlantic Refining Co., 3144 Passyunk St., Phila., (a) $0.209 per gal. in barrels, carload lots. Noted Feb. 15.

Paving Sand, etc. — Brooklyn, N. Y. — E. Riegelmann, boro pres., Boro Hall, opened bids Feb. 28, furnishing and delivering (1) 7,000 cu.yd. paving sand (2) 5,000 cu.yd. 1½ in. gravel (3) 400 ton paving pitch (4) 3,000 cu.yd. paving gravel (5) 35,000 gal. asphalt road binder, from High Grade Builders Supply Co., 6th St. and 2nd Ave., (1) $7,980 (2) $12,700 (4) $7,770; T. E. McCormick, 810 Lincoln Rd., Flatbush, (1) $8,050; J. Grillo (1) $8,645; B. Turrecamo Contg. Co., 8706 Bay 12th St., (2) $12,850; Washington-Bulkely Co., Inc., 666 Kent Ave., (2) $13,200 (4) $8,610; F. J. Lewis Mfg. Co., 177th St. and Ferris Ave., New York, (3) $10,160; Barrett Co., 17 Battery Pl., New York, (3) $10,400; Rosoff Sand & Gravel Corp., 152 West 42nd St., New York, (4) $7,350; Standard Oil Co. of New York, 26 Bway., New York, (5) $4,725. Noted Feb. 22.

Alterations—New York, N. Y.—Transit Comn., 49 Lafayette St., making alterations in Railroad Structure Routes 4 and 36, Sect. 5 to permit widening roadway of East 60th St., Agreement "CC" to Benedetto, Saussez & Bottino, 62 Franklin St., Astoria, $60,317.

Concrete, Bituminous and Crushed Stone—Phila., Pa.—Opened bids Feb. 24, furnishing mixed concrete, from West Jersey Sand & Supply Co., Delaware Ave. and Marlboro St., $10,663, Union Paving Co., 37th and Spruce Sts., $11,652; bituminous materials from Atlantic Refining Co., 1225 Chestnut St., $21,450, Barrett Co., 34th St. and Grays Ave., $29,375, Barber Asphalt Co., Land Title Bldg., $43,062; 20,800 ton crushed stone from Birdsboro Stone Co., Land Title Bldg., $55,120, E. F. Bennis, Phila., $59,488.

Wharf — Detroit, Mich. — Pub. Lighting Comn., East Atwater St., opened bids 1,049 ft. rein.-con. wharf, 36 ft. wide, also intake flume and sewer outlet, from Gass-Thurston Co., 1550 15th St., $379,000; Candler Dock & Dredge Co., 8145 Medina Ave., $423,700; Natl. Constr. Co., 1031 Dime Bank Bldg., $426,900. Noted Dec. 28.

Structural Steel—San Francisco, Calif.—City and San Francisco Co., furnishing, delivering and erecting structural steel for Moccasin Creek Power Plant, from Dyer Bros., 17th and Kansas Sts., $59,400; Union Constr. Co., Balfour Bldg., $60,720; Pacific Rolling Mill Co., 17th and Mississippi Sts., $64,240; Ralston Iron Wks., 20th and Illinois Sts., $64,240. Noted Feb. 1.

CONTRACTS AWARDED

Steam Ashes—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., furnishing and delivering 13,000 ton steam ashes, to E. B. Simpson, Hempstead Turnpike, Hollis, $11,760. Noted Feb. 22.

Corporation Cocks, etc.—New York, N. Y.—Bd. Purch., Municipal Bldg., furnishing and delivering corporation cocks and hydrant repair parts to Dept. Water Supply, Gas & Electricity, to H. Mueller Mfg. Co., 145 West 30th St. Noted Feb. 15.

Steam or Motor Roller—Flemington, N. J.—Hunterdon Co., one 10 ton steam or motor roller, to J. I. Case Threshing Machine Co., West Allis, Wis., $3,870 and old roller. Noted Feb. 1.

Transmission Lines—Sharon, Pa.—Penn-Ohio Electric Co., Sharon, will build transmission and power lines from here to Orangeville, O., etc., by day labor, $25,000.

Steel Tipple — Glen White, W. Va. — E. E. White Coal Co., steel tipple, to Link Belt Co., Huntington Park, Phila., who will take bids on actual construction work and motors. Archts. est. $75,000.

Caterpillar Tractor, etc. — Rochester, Minn.—Olmsted Co., 1 caterpillar tractor, 40 hp. draw bar capacity, to Holt Mfg. Co., 417 Washington Ave. N., Minneapolis; 1 truck with pneumatic tires and dump body, to Case Auto Co., Rochester; one 12 ft. blade grader with engine hitch, to J. D. Adams & Co., 310 North 1st St., Minneapolis. Noted Feb. 1.

Pipe—Kansas City, Kan.—For 4 car loads of 6 in. c.i. Class C bell and spigot pipe, to U. S. Cast Iron Pipe & Fdry. Co., 604 Interstate Bldg., Kansas City, Mo., $50 per ton.

Transmission Line — Shickley, Neb. — Cities of Shickley and Ong, constructing transmission line from Shickley to Ong and distribution system, to M. B. Messeller, Falls City, $14,981 and $13,277 respectively.

Elevator — Dallas, Tex. — Pearlstone Mill & Elevator Co., Hickory St., rein.-con. addition to grain elevator, 200,000 cu. capacity, to Jones Hetteislater Constr. Co., 706 Mutual Bldg., Kansas City, Mo., $60,000.

Electric Distribution System — Wynnewood, Okla.—See "Waterworks."

Grain Elevator—Ft. William, Ont.—Western Terminal Elevator Co., rein.-con. addition to elevator, to Eagles Constr. Co., Ft. William. Engrs. est. $500,000.

Conduit and Cable Work—Toronto, Ont.—Bell Telephone Co., Adelaide St. W., will buy materials and construct glazed tile conduits, cement manhole covers, lead cable, phone wires in Hillcrest Dist., by day labor, $177,000. Private plans.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: March 20.

Park Slope and Fort Hamilton Conduits

CONTRACT 197

New York, N. Y.

Sealed Bids will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers Streets, New York City, until 11 a.m., Eastern Standard time, on Tuesday, March 20, 1923, for Contract 197, for the construction of the Park Slope and Fort Hamilton conduits, portions of the City conduits of the Catskill aqueduct, extending from Shaft 23 of the City tunnel at Schermerhorn street and Third avenue along Third avenue, Dean street, Fourth avenue, Douglass street, St. Johns place, Eighth, Prospect, Tenth and Gravesend Avenues, Fort Hamilton parkway and 86th street to Shore road and along Shore road to 79th street, in the Borough of Brooklyn, New York City.

The conduits will consist of about 39,290 linear feet of 72-inch and 2,140 linear feet of 66-inch steel pipe, about 310 tons of cast-iron pipe and special castings of various sizes, a Venturi meter, valves and other appurtenances, all of which will have to be maintained for one year.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, etc., can be obtained at the office of the Secretary at the above address, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer at the above address.

GEORGE J. GILLESPIE,
President,
JAMES P. SINNOTT,
PHILIP F. DONOHUE,
Commissioners, Board of Water Supply.
BENJ. F. EINBIGLER,
Secretary.

Bids: April 4 (date extended)

Waterworks Improvements

Wheeling, W. Va.

Intake Pier; Intake Line; Substructures and Superstructures for a 20 Million Gallon Filtration Plant and Pumping Station; Heating Plant; Filter Equipment; Sluice Gates; Distributing Mains; Valves; Cast Iron Pipe; 30" Steel and Cast Iron Force Mains; Five One Million Gallon Storage Tanks; and Appurtenances.

Sealed proposals for the construction of 2 20 Million Gallon Filtration Plant and Pumping Station, Steel Reservoirs, Force Mains, Distribution System Piping and Appurtenances as outlined above will be received by the City of Wheeling, W. Va., until 12 o'clock noon, Eastern Standard Time, on the 4th day of April, 1923, and will then be publicly opened and read.

Official Proposal Blanks, Instructions to Bidders, Specifications, Form of Contract and Bond may be seen at the office of the City Clerk, Wheeling, W. Va., or two (2) copies of each may be obtained by bona fide bidders upon application to The J. N. Chester Engineers, Union Bldg., Pittsburgh, Pa., or to the City of Wheeling, W. Va., and deposit of Twenty-five Dollars ($25.00) which amount will be refunded to bidders on receipt of a bona fide bid or upon the return within 30 days after receipt of bids of both copies in good order.

The right is reserved to reject any or all bids.

C. H. DOWLER,
City Manager.

Attest:
W. H. EVANS,
City Clerk.
February 24th, 1923.

OFFICIAL PROPOSALS

Bids: Mar. 21.

Water Works Improvements

Roxboro, N. C.

Sealed proposals will be received by the Mayor and Board of Commissioners of the Town of Roxboro, North Carolina, until 2 o'clock p.m., Wednesday, March 21st, 1923, for developing a new source of water supply. The principal items entering into the work are as follows:

Laying 20,000 feet of 12-inch cast iron B & S water pipe.

Building concrete and brick filter plant; concrete and brick pumping station; concrete reservoir; and earth dam with masonry spillway.

Furnishing and erecting filter equipment.

Furnishing and installing one 500 GPM centrifugal pump with electric motor and one 500 GPM centrifugal pump with gas engine drive.

Clearing impounding reservoir site—60 acres.

Plans will be on file and may be seen at the office of The Ludlow Engineers at Winston-Salem, N. C., or at the office of the Mayor at Roxboro, N. C., after March 1st. After that date copies of the Specifications, Bid Blank, and Contract Form may be obtained from the Engineers.

For the convenience of prospective bidders the Engineers will furnish full set of blue print copies of the plans upon application accompanied by a check for $7.50 to cover the cost, or separate prints at $1.00 each.

Each bid must be accompanied by a certified check payable to the Treasurer of the Town of Roxboro, in the sum of $4,000 with complete bids, or approximately 5% of the amount of partial bids.

Proposals will be opened publicly with the usual rights reserved.

DR. W. A. BRADSHER.
G. W. KANE,
R. L. HARRIS,
Water Works Committee.
THE LUDLOW ENGINEERS,
Winston-Salem, N. C.
J. L. LUDLOW,
Consulting Engineer.

Bids: Mar. 29.

Levee Work

Beardstown, Ill.

Sealed bids will be received by the Commissioners of the South Beardstown Drainage and Levee District of Cass County, Illinois, at the First State Bank Building, at Beardstown, Illinois, up to the hour of 2:00 p.m., March 29, 1923.

The work for which bids are asked is as follows:

A—Enlarging old sand levee, Stations 0 to 18, by hauling sand. Approximately 14,000 yds. (Wheeler or wagon work.)

B—Enlarging old Sand Levee, Stations 18 to 67, approximately 32,000 yds. (Drag line or floater.)

C—Enlarging old dirt levee, Stations 67 to 329, approximately 120,000 cu.yds. (Floater with 90 ft. boom.)

D—Building of 5 dams across borrow pit.

Monthly payments in cash, to the extent of 80% of work performed, will be paid on estimates of the Engineer. Certified check for $500.00 must accompany each bid.

Plans and specifications on file and may be seen at the office of L. B. Kinsey, Engineer, Pekin, Illinois, and John McDorman, Secretary, Beardstown, Illinois.

Bids will be received on separate sections or on the whole work.

L. B. KINSEY,
Civil Engineer,
Pekin, Illinois.

OFFICIAL PROPOSALS

Bids: Mar. 27.

Bridge

Wilkes-Barre, Pa.

Sealed proposals will be received at the office of the City Clerk, City Hall, Wilkes-Barre, Pa., until twelve o'clock noon, Tuesday, March 27, 1923, for the construction of the South Street Bridge in the City of Wilkes-Barre, Pa., in accordance with the plans and specifications on file in the office of the City Engineer.

The bridge will cross the Pennsylvania, Lehigh Valley and Central Railroad of New Jersey's tracks, extend along the north side of South Street, from Washington Street to Park Avenue, be composed of steel trusses over the railroad tracks and reinforced concrete arches and retaining wall approaches thereto. The total length is about 1,735 feet.

Instructions to bidders, plans, specifications, proposal and contract forms may be seen in the office of J. E. Greiner & Company, Consulting Engineers, Lexington Building, Baltimore, Md., and Union Arcade Building, Pittsburgh, Pa., and can be obtained at the office of the City Engineer on and after Tuesday, Macrh 6, 1923, for a deposit of $10.00 for each set, which deposit will be refunded on the day of the letting to those submitting bids, provided the sets are returned complete and in good condition.

Each proposal must be accompanied by a certified check on a solvent bank or trust company in the sum of Five Thousand ($5,000.00) Dollars, made payable without reservations to the Treasurer of the City of Wilkes-Barre, Pa., as a guarantee that if the proposal be accepted a contract will be entered into.

Proposals must be made so as to conform with the instructions to bidders in every respect. Must be endorsed "Proposals for South Street Bridge" and addressed to Fred H. Gates, City Clerk. The City reserves the right to reject any or all bids and to award the contract as may be deemed to the best interests of the City.

MARTIN C. MURRAY,
Superintendent of Streets & Public Improvements.

Bids: March 20.

Sewers

Paducah, Ky.

Sealed proposals will be received until 10 o'clock a.m., Tuesday, March 20, 1923, at the office of the Commissioner of Public Works, City Hall, Paducah, Kentucky, for the construction of the following, 14,833 feet of sewers:

Diameter	Length	Average Depth
42"	407'	8.0'
36"	2,817'	11.7'
33"	307'	11.6'
21"	2,286'	10.3'
18"	1,725'	11.1'
15"	2,845'	13.3'
12"	3,506'	7.8'
10"	940'	11.0'

Borings and test pits indicate clay, sand and gravel.

Materials of construction: Concrete Pipe, Monolithic Concrete, Segment Block, Vitrified Clay, Cement Pipe or Brick.

Certified check for $2,000.00 to accompany bids. Money already available and payments will be cash, 85% monthly.

Right is reserved to reject any or all bids.

Plans and specifications will be furnished upon deposit of $3.00, which will be refunded upon return of same.

HENRY A. PULLIAM,
Commissioner of Public Works
and Chief Engineer.